

# Contract Review Sheet

PW-5423-23

Public Improvement Agreements #: PW-5423-23 Amendment #: \_\_\_\_\_

Contact: Nike Neuenheim Department: Public Works Department

Phone #: (503) 365-3100 Date Sent: \_\_\_\_\_

Title: Construction Contract with Roy Houck Construction, LLC for Project: Construction of Asphalt Concrete

Contractor's Name: Roy Houck Construction, LLC

Term - Date From: June 1, 2023 Expires: November 30, 2024

Original Contract Amount: \$3,353,650.85 Previous Amendments Amount: \$0.00

Current Amendment: \$0.00 New Contract Total: \$3,353,650.85 Amd% 0%

Incoming Funds  Federal Funds  Reinstatement  Retroactive  Amendment greater than 25%

Source Selection Method: 20-0255 Invitation to Bid ITB# PW1336-23

### Description of Services or Grant Award

Construction Contract with Roy Houck Construction, LLC for Project: Construction of Asphalt Concrete Resurfacing of Various Marion County Roads. Roy Houck Construction, LLC was selected through a formal Invitation to Bid procurement process.

Desired BOC Session Date: 5/31/2023 BOC Planning Date: 5/18/2023

Files submitted in CMS: 5/10/2023 Printed packet & copies due in Finance: 5/16/2023

BOC Session Presenter(s) Ryan Crowther

### FOR FINANCE USE

Date Finance Received: \_\_\_\_\_ Date Legal Received: \_\_\_\_\_

Comments: Y

### REQUIRED APPROVALS

DocuSigned by:

*Camber Schlag*

5/16/2023

Finance - Contracts

Date

Contract Specialist

Date

Legal Counsel

Date

Chief Administrative Officer

Date



## MARION COUNTY BOARD OF COMMISSIONERS

## Board Session Agenda Review Form

Meeting date: May 31, 2023

Department: Public Works Department Agenda Planning Date: May 18, 2023 Time required: 10

 Audio/Visual aids

Contact: Ryan Crowther Phone: 503-365-3112

 Department Head Signature:
 

DocuSigned by:  
  
 9793BA7ACD6D443

**TITLE** Approval of Contract PW-5423-23 (ECMS# 2023-101) for the Construction of Asphalt Concrete Resurfacing of Various Marion County Roads

**Issue, Description & Background**

Annually, Public Works issues a solicitation for the resurfacing of various Marion County roads. This year's contract includes a package containing work on six corridors, including sections of Lardon Road NE, State Street SE, 62nd Avenue SE, Macleay Road SE, Culver Drive SE, and 74th / 75th Avenue SE.

On April 13, 2023, bids were received and opened for this project with responsive bids being received from Roy Houck Construction, LLC (\$3,353,650.85), North Santiam Paving, Co. (\$3,896,913.35), and Knife River Corporation - Northwest (\$4,289,857.65).

Staff propose to execute a contract in the amount of \$3,353,650.85 with Roy Houck Construction, LLC, as the lowest responsible bidder. The bid was approved on April 17, 2023, and became official on April 24, 2023, following a required 7-day protest period.

**Financial Impacts:** Public Works has budgeted the necessary funds to complete the project(s) in the FY 2023-24 proposed budget.

**Impacts to Department & External Agencies** None

**Options for Consideration:**

- 1) Approve the contract in the amount of \$3,353,650.85 with Roy Houck Construction, LLC.
- 2) Take no action at this time.

**Recommendation:** Staff recommend the Board choose option 1 and approve the contract.

**List of attachments:**

1. Contract Review Sheet
2. Construction Contract PW-5423-23

**Presenter:** Ryan Crowther

*Copies of completed paperwork sent to the following: (Include names and e-mail addresses.)*
**Copies to:** Nike Neuenheim / nneuenheim@co.marion.or.us

## CONSTRUCTION CONTRACT PW-5423-23

THIS CONTRACT, made and entered into by and between MARION COUNTY, A Political Subdivision of the State of Oregon, acting by and through its duly elected, qualified, and acting Board of Commissioners, hereinafter called the "County" and Roy Houck Construction, LLC, hereinafter called the "Contractor" for the Project entitled: The Construction of Asphalt Concrete Resurfacing of Various Marion County Roads.

### WITNESSETH

Contractor, in consideration of the sum of \$ 3,353,650.85 (the "Contract Price"), to be paid to the Contractor by County in the manner and at the time hereinafter provided, and in consideration of the other covenants and agreements herein contained, hereby agrees to perform and complete the work herein described and provided for and to furnish all necessary machinery, tools, apparatus, equipment, supplies, materials and labor, and do all things in accordance with the Invitation to Bid, this Construction Contract and other Contract Documents, applicable Plans, the applicable Standard Specifications, the Special Specifications and Bid Bond, all of which are incorporated herein by reference, and in accordance with such alterations and modifications of the same as may be made by the County.

This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the Contractor.

1. Contractor shall pay all contributions or amounts due the Industrial Accident Fund from such Contractor or Subcontractor incurred in the performance of the contract.
2. Contractor shall not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished.
3. Contractor agrees to pay the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.
4. Contractor shall indemnify, defend, save and hold harmless Marion County and its officers, employees, agents and volunteers from and against any and all claims, actions, liabilities, damages, losses, or expenses, including attorneys' fees, arising from a tort, as now or hereafter defined in ORS 30.260, caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of Contractor or any of the officers, agents, employees or subcontractors of the Contractor ("Claims"). It is the specific intention of the Parties that County shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of County, be indemnified by the Contractor and subcontractor from and against any and all Claims.

Any such indemnification shall also provide that neither Contractor and subcontractor nor any attorney engaged by Contractor and subcontractor shall defend any claim in the name of Marion County, nor purport to act as legal representative of the Marion County, without the prior written consent of the County's Legal Counsel. The County may, at anytime at its election assume its own defense and settlement in the event that it determines that Contractor is prohibited from defending the County, or the Contractor is not adequately defending the County's interests, or that an important governmental principle is at issue or that it is in the best interests of the County to do so. The County reserves all rights to pursue claims it may have against Contractor if the County elects to assume its own defense.

5. Money due to Contractor under and by virtue of this Contract may be returned for the use of the County; or, in case no money is due, Contractor's surety may be held until such suit or suits, action or actions, claim or claims for injuries or damages as aforesaid shall have been settled and suitable evidence to that effect furnished to the County; except that money due the Contractor will not be withheld when the Contractor produces satisfactory evidence that Contractor is adequately protected by public liability and property damage insurance.
6. In consideration of the faithful performances of all of the obligations, both general and special, herein set out and in consideration of the faithful performance of the Work as set forth in this Contract, the applicable Invitation to Bid, Plans, Specifications, Bid, and all general and detailed specifications and plans which are a part hereof, and in accordance with the directions of the County and to its satisfaction, the County agrees to pay to the said Contractor the amount earned, as determined from the actual quantities of work performed and the prices and other basis of payment specified, and taking into consideration any amounts that may be deductible under the terms of the Contract, and to make such payments in the manner and at the time provided in the Contract.
7. In the event the Board of Commissioners of the County reduces, changes, eliminates, or otherwise modifies the funding for any of the services identified, the Contractor agrees to abide by any such decision, including termination of service.
8. The County delegates to the Marion County Engineer the authority and responsibility for issuing approvals, providing notices, receiving notices, issuing directives, authorizing change orders, and avoiding and resolving disputes.
9. This contract may be increased by twenty-five (25) percent over the original contract amount to include additional work for the projects specified in the contract, upon mutual agreement of both parties.
10. Contractor, its assignees and successors in interest agree to comply with the requirements of the Marion County Public Works Department Federally Funded Transportation Program Title VI Plan, herein incorporated by this reference, as follows:

a. Compliance with Regulations.

The Contractor shall comply with the Regulations relative to nondiscrimination in federally assisted programs of the Department of Transportation (hereinafter DOT), Title 49, Code of Federal Regulations, part 21, as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.

b. Nondiscrimination.

The Contractor, with regard to the Work performed during the contract, shall not discriminate on the grounds of race, color, sex, or national origin in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor shall not participate either directly or indirectly in the discrimination prohibited by Section 21.5 of the Regulations, including employment practices when the contract covers a program set forth in Appendix B of the Regulations.

c. Solicitations for Subcontracts, including Procurement of Materials and Equipment.

In all solicitations either by competitive bidding or negotiations made by the Contractor for work to be performed under a subcontract, including procurement of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Contractor of the Contractor's obligations under this Contract and the Regulations relative to nondiscrimination on the ground of race, color, sex, or national origin.

d. Information and Reports.

The Contractor shall provide all information and reports required by the Regulations or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by Marion County or the Oregon Department of Transportation to be pertinent to ascertain compliance with such Regulations, orders and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to Marion County or the Oregon Department of Transportation as appropriate, and shall set forth what efforts it has made to obtain the information.

e. Sanctions for Noncompliance.

In the event of the Contractor's noncompliance with the nondiscrimination provisions of this Contract, Marion County and the Oregon Department of Transportation shall impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate including, but not limited to:

1. Withholding of payments to the contractor under the Contract until the Contractor complies, and/or;
2. Cancellation, termination, or suspension of the Contract, in whole or in part.

11. Incorporation of Provisions.

The Contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by state or federal Regulations or directives issued pursuant thereto. The Contractor shall take such action with respect to any subcontractor or procurement as Marion County may direct as a means of enforcing such provisions including sanctions for noncompliance.

12. Independent Contractor.

The Contractor is a separate and independently established business, retains sole and absolute discretion over the manner and means of carrying out the Contractor's activities and responsibilities for the purpose of implementing the provisions of this Contract, and maintains the appropriate license/certifications, if required under Oregon Law. Notwithstanding the preceding sentence, County reserves the right to determine schedule for the work to be performed and to evaluate the quality of the completed performance. This Contract shall not be construed as creating an agency, partnership, joint venture, employment relationship or any other relationship between the Parties other than that of independent parties. The Contractor is acting as an "independent contractor" and is not an employee of County, and accepts full responsibility for taxes or other obligations associated with payment for services under this Contract. As an "independent contractor", Contractor will not receive any benefits normally accruing to County employees unless required by applicable law. Furthermore, Contractor is free to contract with other parties for the duration of the Contract.

13. Governing Law and Venue.

Any dispute between the County and the Contractor that arises from or relates to this Contract and that is not resolved under the provisions of Section 00199 of the General Conditions shall be brought and conducted solely and exclusively within the Circuit Court of Marion County; provided, however, if a dispute must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Oregon. In no event shall this be construed as a waiver by Marion County on any form of defense or immunity, whether sovereign immunity, governmental immunity, immunity based on the Eleventh Amendment to the Constitution of the United States or otherwise, from any claim or from the jurisdiction of any court. CONTRACTOR BY EXECUTION OF THE CONTRACT HEREBY CONSENTS TO THE IN PERSONAM JURISDICTION OF THE COURTS REFERENCED IN THIS SECTION.

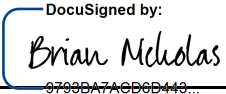
IN WITNESS WHEREOF, the parties hereto have subscribed their names and affixed their respective official seals, the day and year first above written.

**MARION COUNTY SIGNATURE BOARD OF COMMISSIONERS:**

\_\_\_\_\_  
Chair Date

\_\_\_\_\_  
Commissioner Date

\_\_\_\_\_  
Commissioner Date

Authorized Signature:  5/16/2023  
\_\_\_\_\_  
Department Director or designee Date

Authorized Signature: \_\_\_\_\_  
Chief Administrative Officer Date

Reviewed by Signature: \_\_\_\_\_  
Marion County Legal Counsel Date

Reviewed by Signature:  5/16/2023  
\_\_\_\_\_  
Marion County Contracts & Procurement Date

**ROY HOUCK CONSTRUCTION, LLC SIGNATURE:**

Company: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_  
Date

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_

MARION COUNTY PUBLIC WORKS

INVITATION TO BID

FOR

THE CONSTRUCTION OF

ASPHALT CONCRETE RESURFACING OF  
VARIOUS MARION COUNTY ROADS

MARION COUNTY, OREGON

Bid Publication Date: March 27, 2023

Bid Opening: April 13, 2023

MARION COUNTY BID #: PW1336-23

OREGONBUYS BID SOLICITATION #: S-C25102-00006273

ECMS NO. 2023-101  
ACCOUNTING PROJECT NO. 100267

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MARION COUNTY BOARD OF COMMISSIONERS

Danielle Bethell	Commissioner
Colm Willis	Commissioner
Kevin Cameron	Commissioner

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Brian Nicholas, Director of Public Works



RENEWS: 2/3/23

Electronic copies of this Invitation to Bid and attachments, if any, can be obtained from the Marion County Procurement Collaboration Portal at the URL

<https://contracts.co.marion.or.us/gateway/>

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D-3	Driveway Water Bar Detail
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D-5	Mailbox Turnout Detail
D-6	Alignment Layout Marking Detail
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T-1	Lardon Rd NE Typical Section
T-2	State St SE Typical Section
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T-4	Macleay Rd SE Typical Section
T-5	Culver Dr SE Typical Section
T-6	75 <sup>th</sup> Ave SE Typical Section
DTP-1	Macleay Rd SE Closure
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RD100	Mailbox Support
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RD356	Manhole Cover and Frames
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RD615	Surface Edge Details
RD715	Approaches and Non-Sidewalk Driveways
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TM515	Pavement Markers
TM800	Tables, Abrupt Edge and PCMS Details
TM810	Temporary Pavement Markings
TM841	Intersection Work Zone Details
TM850	2-Lane, 2-Way Roadways
V-1	Vicinity Map

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## INTRODUCTION

### 1.1 Description of Work

Construction of asphalt concrete resurfacing of various Marion County roads as called for in the Plans and Specifications and such additional Incidental Work as requested by the Engineer. The estimated project cost range is \$2,500,000 to \$4,000,000

### 1.2 Requests for Clarification or Changes

As stated in section 00120.15 of the General Conditions for Marion County, any clarification of Plans and Specifications needed by the Bidder shall be submitted to Marion County at least five days prior to the date of Bid Closing. Failure to request clarification or changes in a timely manner shall be deemed acceptance of all the terms and conditions of the Procurement.

### 1.3 Time, Place and Methods of Receiving Bids

Submit electronic bids as specified in 00120.45(b) by 2:00 p.m. on April 13, 2023 (Bid Closing). Bids will be considered time-stamped and received by the Agency at the time they are uploaded to the Procurement Collaboration Portal at <https://contracts.co.marion.or.us/gateway/>.

It is the Bidder's responsibility to ensure that bids are received by the Agency prior to the stated submission deadline at the URL shown above. Bids, withdrawals or modifications submitted after the time set for receiving bids will not be opened or considered.

Bids will be opened and read in Building 1, Marion County Public Works, 5155 Silverton Road NE Salem, Oregon, immediately following Bid Closing. Bid Results will be posted by 10:00 a.m. the next business day on OregonBuys under solicitation number S-C25102-00006273.

### 1.4 Time for Completion of Work

Complete all Work to be done under the Contract except for work under section 00855 and 01070 no later than September 30, 2023. Complete all work under section 00855 no later than September 29, 2023. Complete all work under section 01070 no later than November 30, 2023.

Recording of the elapse of Calendar Days, if specified, will begin on the day the Contractor begins On-Site Work as defined in 00110.20.

### 1.5 Project Information

Information pertaining to this Project may be obtained from the following person at Marion County Public Works, 5155 Silverton Road NE, Salem, Oregon 97305-3802:

Nike Neuenheim

503-365-3100

[NNeuenheim@co.marion.or.us](mailto:NNeuenheim@co.marion.or.us)

### 1.6 Bid Guarantee

No bid shall be considered unless it is accompanied by a surety bond, cashier's check, certified check, or irrevocable letter of credit by an insured institution, as defined in ORS 706.008, of the bidder in the amount of ten percent (10%) of the bid, per 00120.40(e).

The county shall return the bid security to all bidders upon the execution of the contract. The county shall retain bid security if a bidder who is awarded a contract fails to promptly and properly execute the contract.

### 1.7 Applicable Specifications

The Standard Specifications applicable to the Work on this Project are the 2021 Oregon Standard Specifications for Construction, Parts 00200 through 03000, published by the Oregon Department of Transportation (ODOT) and available for download on the ODOT website at: [https://www.oregon.gov/odot/Business/Specs/2021\\_STANDARD\\_SPECIFICATIONS.pdf](https://www.oregon.gov/odot/Business/Specs/2021_STANDARD_SPECIFICATIONS.pdf).

The General Conditions applicable to the Work on this Project are the General Conditions for Construction for Marion County, (v2021), Part 00100, available for download on the Marion County website at: [https://www.co.marion.or.us/PW/Engineering/Documents/2021\\_MCPW\\_General\\_Conditions.pdf](https://www.co.marion.or.us/PW/Engineering/Documents/2021_MCPW_General_Conditions.pdf).

The Special Provisions applicable to the Work on this Project are enclosed in this Invitation To Bid (ITB). The Special Provisions shall be understood to supersede the Standard Specifications and General Conditions by modification and/or supplement. All number references in the Special Provisions shall be understood to refer to the section or subsection of the Standard Specifications or General Conditions bearing like numbers.

### 1.8 Time Limit of Unsettled Disputes

No action, suit or other legal proceedings shall be maintained by any party thereto against another party hereto upon any claim or cause of action arising out of the Contract or breach thereof or anything done in connection therewith unless commenced within one (1) year of the Final Acceptance of Work under this Contract. All claims or causes of action in any way resulting from this Contract shall be deemed barred unless action or suit thereon shall have been commenced within such time.

### 1.9 Contract Expiration Date

Contract expires on November 30, 2024.

### 1.10 Prevailing Wage Rate Requirements

The Contractor must comply with all of the Oregon Revised Statutes for Public Works Contracts.

The Project is subject to the applicable Oregon prevailing wage rate law (BOLI) and any amendments last published prior to the advertisement date listed on the bid document cover page. It is not subject to the Davis Bacon Act. See detailed requirements in the sample contract.

### 1.11 Funding

This project is locally funded.

### 1.12 Mandatory Submission Forms

The following forms must be completed, signed and returned with the Bidder's submission package:

- Bid Schedule
- Bid Certification
- Bid Bond (or other Bid Guarantee as allowed in 00120.40(e))
- Drug and Alcohol Testing Policy Certification

The following form must be completed, signed and returned within two (2) hours of the Bid Closing:

- First-Tier Subcontractor Disclosure Form

The Agency may consider any Bid that does not include the mandatory submission forms identified in this section, filled out completely and appropriately endorsed, to be non-responsive. The Agency reserves the right to waive minor informalities and irregularities in determining the responsiveness of individual Bids. Non-responsive Bids shall not be considered for award.

### 1.13 Bid Evaluation

The County will perform an analysis of the bids to determine if any significantly unbalanced items are to the detriment of the County per Section 00120.70 of the General Conditions. The County reserves the right to reject any such bid that is mathematically and materially unbalanced. A materially unbalanced bid is when the Agency determines that an award to the Bidder submitting a mathematically unbalanced bid likely will not result in the lowest ultimate cost to the Agency.



**Marion County**  
OREGON

**ADDENDUM #1  
TO THE  
INVITATION TO BID  
PW1336-23 - INVITATION TO BID FOR THE CONSTRUCTION OF ASPHALT  
CONCRETE RESURFACING OF VARIOUS MARION COUNTY ROADS  
ISSUED ON 3/27/2023 1:30:00 PM**

The following information in this addendum, hereby become part of the Invitation To Bid. It is essential that all prospective Offerors note the content of this Addendum.

**A. Preproposal Conference:**

N/A

**B. Scope of Work Revisions:**

N/A

**C. Clarifications:**

Addition of sheet R-1 to the Invitation to Bid for the Construction of Asphalt Concrete Resurfacing of Various Marion County Roads, section Maps and Drawings. R-1 should be inserted after sheet T-6 within the section Maps and Drawings.

**D. Question and Answers:**

N/A

**BID SCHEDULE**  
**Marion County Public Works**  
**Asphalt Concrete Resurfacing Of Various Marion County Roads**  
**Marion County Bid Solicitation #: PW1336-23**  
**OregonBuys Bid Solicitation #: S-C25102-00006273**  
**ECMS #: 2023-101**

**PROJECT NUMBER 1 - LARDON RD NE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	100.00	FEET	\$1.00	\$100.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	2.00	EACH	\$1,850.00	\$3,700.00
225.490	FLAGGERS	520.00	HOUR	\$64.00	\$33,280.00
225.510	PILOT CARS	110.00	HOUR	\$77.75	\$8,552.50
490.125	MINOR ADJUSTMENT OF MANHOLES	1.00	EACH	\$750.00	\$750.00
490.300	ADJUST BOXES	10.00	EACH	\$200.00	\$2,000.00
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	1,910.00	SQUARE YARD	\$5.30	\$10,123.00
620.206	COLD PLANE PAVEMENT REMOVAL, 1 1/2" DEEP	2,990.00	SQUARE YARD	\$3.50	\$10,465.00
641.190	AGGREGATE SHOULDERS	2,700.00	TON	\$35.21	\$95,067.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	4,300.00	TON	\$74.80	\$321,640.00
745.225	LEVEL 2, 3/8" DENSE, PG 64-22, ACP IN LEVELING	2,800.00	TON	\$75.80	\$212,240.00
749.095	EXTRA FOR ASPHALT APPROACH	6.00	EACH	\$850.00	\$5,100.00
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS	5.00	EACH	\$1,600.00	\$8,000.00
861.050	STRIPING LAYOUT	1.00	LUMP SUM	\$1,400.00	\$1,400.00
1070.100	SINGLE MAILBOX SUPPORTS	46.00	EACH	\$350.00	\$16,100.00
1070.200	MULTIPLE MAILBOX SUPPORTS	2.00	EACH	\$650.00	\$1,300.00
1070.300	MAILBOX CONCRETE COLLARS	2.00	EACH	\$200.00	\$400.00
1070.600	MAILBOX WITH NUMBERS	1.00	EACH	\$100.00	\$100.00
1070.650	MAILBOX, LOCKING, WITH NUMBERS	1.00	EACH	\$275.00	\$275.00
9999.412	TEMPORARY CENTERLINE DELINEATION	2,000.00	EACH	\$1.00	\$2,000.00
<b>ECMS 2023-101- PROJECT NUMBER 1 TOTAL</b>				<b>\$732,592.50</b>	

**PROJECT NUMBER 2 - STATE ST SE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	180.00	FEET	\$1.00	\$180.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	4.00	EACH	\$1,850.00	\$7,400.00



225.490	FLAGGERS	640.00	HOUR	\$64.00	\$40,960.00
225.510	PILOT CARS	130.00	HOUR	\$77.75	\$10,107.50
490.300	ADJUST BOXES	19.00	EACH	\$148.25	\$2,816.75
620.101	COLD PLANE PAVEMENT REMOVAL	172.00	SQUARE YARD	\$5.35	\$920.20
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	1,472.00	SQUARE YARD	\$5.35	\$7,875.20
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS	960.00	SQUARE YARD	\$9.55	\$9,168.00
641.190	AGGREGATE SHOULDERS	3,500.00	TON	\$32.70	\$114,450.00
738.200	SAFETY EDGE	1.00	LUMP SUM	\$500.00	\$500.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	7,700.00	TON	\$77.55	\$597,135.00
745.262	LEVEL 2, 3/8" DENSE, PG 64-22, ACP IN BASE PLUG	175.00	TON	\$124.80	\$21,840.00
749.095	EXTRA FOR ASPHALT APPROACH	14.00	EACH	\$850.00	\$11,900.00
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS	7.00	EACH	\$1,600.00	\$11,200.00
861.050	STRIPING LAYOUT	1.00	LUMP SUM	\$1,400.00	\$1,400.00
1070.100	SINGLE MAILBOX SUPPORTS	22.00	EACH	\$350.00	\$7,700.00
1070.600	MAILBOX WITH NUMBERS	1.00	EACH	\$100.00	\$100.00
9999.412	TEMPORARY CENTERLINE DELINEATION	2,479.00	EACH	\$1.00	\$2,479.00

**ECMS 2023-101 - PROJECT NUMBER 2 TOTAL                   \$848,131.65**

**PROJECT NUMBER 3 - 62ND AVE SE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	40.00	FEET	\$1.00	\$40.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	2.00	EACH	\$1,850.00	\$3,700.00
225.490	FLAGGERS	360.00	HOUR	\$64.00	\$23,040.00
225.510	PILOT CARS	70.00	HOUR	\$77.75	\$5,442.50
490.300	ADJUST BOXES	1.00	EACH	\$250.00	\$250.00
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	227.00	SQUARE YARD	\$7.60	\$1,725.20
641.190	AGGREGATE SHOULDERS	1,350.00	TON	\$34.00	\$45,900.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	1,650.00	TON	\$76.55	\$126,307.50
749.095	EXTRA FOR ASPHALT APPROACH	4.00	EACH	\$850.00	\$3,400.00
861.050	STRIPING LAYOUT	1.00	LUMP SUM	\$750.00	\$750.00
1070.100	SINGLE MAILBOX SUPPORTS	12.00	EACH	\$350.00	\$4,200.00
1070.200	MULTIPLE MAILBOX SUPPORTS	5.00	EACH	\$650.00	\$3,250.00
1070.300	MAILBOX CONCRETE COLLARS	5.00	EACH	\$200.00	\$1,000.00
1070.600	MAILBOX WITH NUMBERS	1.00	EACH	\$100.00	\$100.00
9999.412	TEMPORARY CENTERLINE DELINEATION	602.00	EACH	\$1.00	\$602.00

**ECMS 2023-101 - PROJECT NUMBER 3 TOTAL                   \$219,707.20**

**PROJECT NUMBER 4 - MACLEAY RD SE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
1.804	RAILROAD INSURANCE	0.00	AS AUTHORIZE D	\$1.00	
1.805	RAILROAD FLAGGERS	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	340.00	FEET	\$1.00	\$340.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	6.00	EACH	\$1,850.00	\$11,100.00
225.490	FLAGGERS	710.00	HOURL	\$64.00	\$45,440.00
225.510	PILOT CARS	100.00	HOURL	\$77.75	\$7,775.00
490.300	ADJUST BOXES	4.00	EACH	\$250.00	\$1,000.00
610.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	2,571.00	SQUARE YARD	\$5.50	\$14,140.50
620.115	COLD PLANE PAVEMENT REMOVAL, CURB LINE	128.00	SQUARE YARD	\$12.50	\$1,600.00
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS	791.00	SQUARE YARD	\$8.30	\$6,565.30
641.190	AGGREGATE SHOULDERS	2,900.00	TON	\$33.35	\$96,715.00
738.200	SAFETY EDGE	1.00	LUMP SUM	\$500.00	\$500.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	6,900.00	TON	\$74.60	\$514,740.00
745.262	LEVEL 2, 3/8" DENSE, PG 64-22, ACP IN BASE PLUG	150.00	TON	\$130.85	\$19,627.50
749.095	EXTRA FOR ASPHALT APPROACH	9.00	EACH	\$850.00	\$7,650.00
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS	13.00	EACH	\$1,600.00	\$20,800.00
861.050	STRIPING LAYOUT	1.00	LUMP SUM	\$1,400.00	\$1,400.00
1070.100	SINGLE MAILBOX SUPPORTS	56.00	EACH	\$350.00	\$19,600.00
1070.200	MULTIPLE MAILBOX SUPPORTS	6.00	EACH	\$650.00	\$3,900.00
1070.300	MAILBOX CONCRETE COLLARS	6.00	EACH	\$200.00	\$1,200.00
1070.600	MAILBOX WITH NUMBERS	1.00	EACH	\$100.00	\$100.00
1070.650	MAILBOX, LOCKING, WITH NUMBERS	2.00	EACH	\$275.00	\$550.00
9999.412	TEMPORARY CENTERLINE DELINEATION	2,075.00	EACH	\$1.00	\$2,075.00
9999.510	TEMPORARY DETOUR ROUTE	1.00	LUMP SUM	\$1,400.00	\$1,400.00

**ECMS 2023-101 - PROJECT NUMBER 4 TOTAL****\$778,218.30****PROJECT NUMBER 5 - CULVER DR SE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
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1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	60.00	FEET	\$1.00	\$60.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	2.00	EACH	\$1,850.00	\$3,700.00
225.490	FLAGGERS	510.00	HOUR	\$64.00	\$32,640.00
225.510	PILOT CARS	120.00	HOUR	\$77.75	\$9,330.00
330.202	GENERAL EXCAVATION TO A NOMINAL DEPTH OF 3"	10,820.00	FEET	\$0.50	\$5,410.00
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	411.00	SQUARE YARD	\$12.45	\$5,116.95
641.190	AGGREGATE SHOULDERS	1,390.00	TON	\$33.75	\$46,912.50
738.200	SAFETY EDGE	1.00	LUMP SUM	\$500.00	\$500.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	3,600.00	TON	\$75.75	\$272,700.00
745.262	LEVEL 2, 1/2" DENSE, PG 64-22. ACP IN BASE PLUG	330.00	TON	\$99.90	\$32,967.00
749.095	EXTRA FOR ASPHALT APPROACH	31.00	EACH	\$850.00	\$26,350.00
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS	1.00	EACH	\$1,600.00	\$1,600.00
861.050	STRIPING LAYOUT	1.00	EACH	\$750.00	\$750.00
1070.100	SINGLE MAILBOX SUPPORTS	27.00	EACH	\$350.00	\$9,450.00
9999.412	TEMPORARY CENTERLINE DELINEATION	1,082.00	EACH	\$1.00	\$1,082.00

**ECMS 2023-101 - PROJECT NUMBER 5 TOTAL****\$448,568.45****PROJECT NUMBER 6 - 74TH AVE SE / 75TH AVE SE**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
1.801	ACP MATERIAL PRICE ADJUSTMENT	0.00	AS AUTHORIZE D	\$1.00	
225.276	TEMPORARY REMOVABLE TAPE	120.00	FEET	\$1.00	\$120.00
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS	2.00	EACH	\$1,850.00	\$3,700.00
225.490	FLAGGERS	322.00	HOUR	\$64.00	\$20,608.00
225.510	PILOT CARS	70.00	HOUR	\$77.75	\$5,442.50
490.300	ADJUST BOXES	4.00	EACH	\$250.00	\$1,000.00
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS	945.00	SQUARE YARD	\$6.60	\$6,237.00
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS	910.00	SQUARE YARD	\$9.65	\$8,781.50
641.190	AGGREGATE SHOULDERS	850.00	TON	\$32.00	\$27,200.00
738.200	SAFETY EGDE	1.00	LUMP SUM	\$500.00	\$500.00
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP	2,500.00	TON	\$76.50	\$191,250.00
745.262	LEVEL 2, 1/2" DENSE, PG 64-22, ACP IN BASE PLUG	175.00	TON	\$122.75	\$21,481.25
745.095	EXTRA FOR ASPHALT APPROACH	4.00	EACH	\$850.00	\$3,400.00
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS	4.00	EACH	\$1,600.00	\$6,400.00

861.050	STRIPING LAYOUT	1.00	LUMP SUM	\$750.00	\$750.00
1070.100	SINGLE MAILBOX SUPPORTS	17.00	EACH	\$350.00	\$5,950.00
1070.200	MULTIPLE MAILBOX SUPPORTS	3.00	EACH	\$650.00	\$1,950.00
1070.300	MAILBOX CONCRETE COLLARS	3.00	EACH	\$200.00	\$600.00
9999.412	TEMPORARY CENTERLINE DELINEATION	760.00	EACH	\$1.00	\$760.00

**ECMS 2023-101 - PROJECT NUMBER 6 TOTAL \$306,130.25**

**PROJECT NUMBER 7 - REFLECTIVE PAVEMENT MARKERS**

ITEM #	DESCRIPTION	QTY	UNITS	UNIT PRICE	AMOUNT
225.510	PILOT CARS	80.00	HOUR	\$77.75	\$6,220.00
860.200	BI-DIRECTIONAL YELLOW TYPE I MARKERS	2,150.00	EACH	\$6.55	\$14,082.50

**ECMS 2023-101 - PROJECT NUMBER 7 TOTAL \$20,302.50**

**ECMS 2023-101 - TOTAL EXTENSION \$3,353,650.85**

## BID CERTIFICATION

The Honorable Board of  
County Commissioners  
Marion County Courthouse  
Salem, Oregon 97301

Commissioners:

The Undersigned, hereinafter called the Bidder, declares that the only person or parties interested in this Bid are those named herein; that this Bid Certification is in all respects fair and without fraud; that it is made without collusion with any official or employee of the County, and without any connection or collusion with any person making another certification on this Contract.

The Bidder also certifies to the following:

### A. Noncollusion:

- The price(s) and amount of this Bid have been arrived at independently and without consultation, communication, or agreement with any other contractor, bidder, or potential bidder except as disclosed on a separately attached statement.
- Neither the price(s) nor the amount of this Bid, and neither the approximate price(s) nor approximate amount of this Bid has been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before the opening of bids.
- No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, to submit a bid higher than this Bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.
- This Bid is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive bid.
- The Bidder, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act, prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract except as described on a separately attached statement.
- The Bidder understands and acknowledges that the above representations are material and important and will be relied on by Marion County, in awarding the contract(s) for which this Bid is submitted. The Bidder understands that any misstatement in this Certification is and shall be treated as fraudulent concealment from Marion County, of the true facts relating to the submission of bids for this contract.

### B. Noninvolvement in Any Debarment and Suspension:

The Bidder, its owners, directors, and officers:

- Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- Have not within a three-year period preceding this Bid been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.

- Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in the preceding paragraph of this Certification; and
- Have not within a three-year period preceding this Bid had one or more public transactions (Federal, State, or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this Certification, the prospective primary participant shall attach an explanation to this Bid.

List exceptions in writing on one or more pages, as necessary, with the heading, "Certification Exceptions, Bid Insert," and attach all pages to this Bid Certification. For each exception noted, indicate to whom the exception applies, initiating agency, and date(s) of action.

C. Lobbying Activities:

To the best of my knowledge and belief, that:

- No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions to the ODOT Procurement Office - Construction Contracts Unit, MS# 2-2, 3930 Fairview Industrial Drive SE, Salem, Oregon 97302-1166. Copies of Standard Form-LLL are available at the above location.
- This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this Certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required Certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.
- The prospective participant also agrees by submitting his or her Bid that he or she shall require that the language of this Certification be inserted in all lower tier subcontracts, which exceed \$100,000 and that all such subrecipients shall certify and disclose accordingly.

D. Compliance With Oregon Tax Laws:

- By signature on this Bid, the undersigned hereby certifies under penalty of perjury that the undersigned is authorized to act on behalf of Bidder, that the undersigned has authority and knowledge regarding Bidder's payment of taxes, and that Bidder is, to the best of the undersigned's knowledge, not in violation of any Oregon Tax Laws. For purposes of this certification, "Oregon Tax Laws" means a state tax imposed by ORS 320.005 to 320.150 (Amusement Device Taxes), ORS 403.200 to 403.250 (Tax For Emergency Communications), and ORS Chapters 118 (Inheritance Tax), 314 (Income Tax), 316 (Personal Income Tax), 317 (Corporation Excise Tax), 318 (Corporation Income Tax), 321 (Timber And Forestland Tax), 323 (Cigarettes And Tobacco Products Tax), and the elderly rental assistance program under ORS 310.630 to 310.706, and any local taxes administered by the Department of Revenue under ORS 305.620.

E. Employee Drug Testing Program:

- Pursuant to ORS 279C.505(2), that the bidder has an employee drug testing program in place, and will maintain such program for the entire period of this contract. Failure to maintain such program shall constitute a material breach of contract.

F. Nondiscrimination:

- Pursuant to ORS 279A.110, that the Bidder has not discriminated and will not discriminate against a disadvantaged business enterprise, a minority-owned business, a woman-owned business, a business that a service-disabled veteran owns, or an emerging small business in obtaining any required subcontracts. The Bidder understands that it may be disqualified from bidding on this public improvement project if the Agency finds that the Bidder has violated subsection (1) of ORS 279A.110.

G. Use of Registered Subcontractors:

- That all subcontractors performing work on this public improvement contract will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence work under this contract.

H. Incorporation of All Addenda:

- The Bidder has incorporated into this Bid all Addenda issued for this Project.
- The Bidder understands and acknowledges that the Agency will provide all Addenda only by publishing them on the OregonBuys website. Addenda may be downloaded from the OregonBuys website.
- The Bidder shall be responsible for diligently checking the OregonBuys website for Addenda. Bidders should check the web site at least weekly until one (1) week prior to the designated time to receive bids and daily thereafter.
- By submitting this Bid, the Bidder assumes all risks associated with its failure to access all Addenda and waives all claims, suits, and actions against the State, Agency, the Agency's governing commission and its members, and their officers, agents, and employees that may arise out of the Bidder's failure to access all Addenda, in spite of any contingencies such as website failure, down-time, service interruptions, and corrupted, inaccurate, or incomplete Addenda or information.

The Bidder declares that the Bidder has carefully examined the Specifications and other proposed Contract Documents; that the Bidder personally has made an examination of the site of the proposed Work and has made the necessary investigations to determine the conditions to be encountered independently of the indications in the Specifications. The applicable Standard Specifications, General Conditions, Special Provisions, and other Contract Documents bound herewith are by reference a part of this Bid Certification.

The Bidder agrees to accept as full payment for the Work herein proposed or the materials to be furnished the amount computed as determined by the provisions of this Invitation To Bid and based on the following Bid Certification, it being expressly understood that the unit prices listed are independent of the exact quantities involved, where unit prices apply.

The Bidder further declares the total amount of work, expressed in dollars, Bidder's company reasonably believes it is capable of bonding at any one time: \$20,000,000. The Bidder declares the portion of this amount which remains available at time of completion of this form is \$8,800,000.

The Bidder further agrees that the provisions required by ORS 279C.840 shall be included in the Contract.

The Bidder is prequalified on the Oregon Department of Transportation (ODOT) list for the Work categories requested for this Project and has attached proof of prequalification to this Bid.

## Experience / References

The information on this form may be utilized by Marion County to consider whether a Bidder has met the standards of responsibility set forth in ORS279C.375.

Current Contracts in Force/Previous Experience – minimum of three required of similar nature with public sector work.

Contract #1	2021 Street Rehabilitation
Location (city/state)	Dallas, OR
Owners Name	City of Dallas
Type of Work	traffic control, grind, pave
% Completed	100%
Estimated Completion Date	July 2022

Contract #2	Resurfacing of Various Marion County Roads 2022-101 & 2022-102
Location (city/state)	Marion County, Oregon
Owners Name	Marion County Public Works
Type of Work	traffic control, grind, pave, pavement repair
% Completed	100%
Estimated Completion Date	Sept. 26, 2022

Contract #3	2019 River Rd N Resurfacing
Location (city/state)	Keizer OR
Owners Name	City of Keizer
Type of Work	traffic control, grind, pave
% Completed	100%
Estimated Completion Date	December 2019

References – minimum of two project owner references and two subcontractor references.

## #1 Project Owner Reference

Reference Name	Vidal Francis
Business or Employer	ODOT
Telephone	503-986-2695
Project Name/\$ Amount	OR 99W: McDougall Jct - McDonald Way / \$9,045,115.49

## #2 Project Owner Reference

Reference Name	Scott Peterson
Business or Employer	AKS Engineering
Telephone	503-400-6028
Project Name/\$ Amount	River Rd N Resurfacing / \$807,300.00

## #1 Subcontractor Reference

Reference Name	Buck Johnson
Business or Employer	4S Signs LLC
Telephone	541-928-5858
Project Name/\$ Amount	OR 22: Joseph St - Golf Club Rd / \$32,800.00

## #2 Subcontractor Reference

Reference Name	Ron Hicks
Business or Employer	Hicks Striping & Curbing
Telephone	503-364-4577
Project Name/\$ Amount	OR 99W: McDougall Jct - McDonald Way / \$170,002.95



The name of the Bidder who is submitting this Bid Certification is:

Company: Roy Houck Construction LLC  
(Print or Type)

Address: 4444 22nd Ave NE  
(Print or Type)

City, State Zip Salem OR 97301  
(Print or Type)

which address is the address to which all communications considered with this Bid Certification and with the Contract shall be sent.

The names of the principal officers of the corporation submitting this Bid and Bid Certification or of the partners, if the Bid Certification is submitted by a partnership, or of all persons interested in this Bid Certification as principals, are as follows:

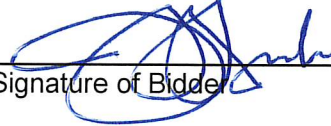
Roy Houck III \_\_\_\_\_

Rye Houck \_\_\_\_\_

Dated this 12 day of April, 2023.

Construction Contractor's  
Board Registration Number  
192510

Roy Houck Construction LLC  
Firm Name

  
Signature of Bidder

Roy Houck III  
Name Print or Type

Member  
Title Print or Type

Telephone No. 503-463-7177

Email Address: sarah@houckco.com

Tax ID # 27-2841744

Business Organization: (Check one)

- Corporation
- Limited Liability Company
- Joint Venture
- Partnership
- Sole Proprietorship
- Other \_\_\_\_\_

BID BOND


KNOW ALL PERSONS BY THESE PRESENTS, that Roy Houck Construction, LLC  
Travelers Casualty and Surety  
\_\_\_\_\_, hereinafter called the Principal, and Company of America, a Corporation organized and  
existing under and by virtue of the laws of the state CT duly authorized to do surety business in the  
State of Oregon as Surety, are held and firmly bound unto Marion County hereinafter called the County, in the  
penal sum of Ten Percent of Amount Bid Dollars (\$ 10%), for the payment of which, well and truly to be  
made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally,  
firmly by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the Principal herein is herewith submitting his  
or its Bid Proposal for Asphalt Concrete Resurfacing of Various Marion County Roads  
said Bid Proposal, by reference thereto, being hereby made a part hereof.

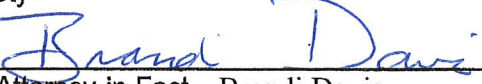
NOW THEREFORE, if the said Bid Proposal submitted by the said Principal be accepted, and the Contract be  
awarded to said Principal, and if the said Principal shall execute the proposed Contract as required by the  
bidding and the Contract Documents within the time set by said Documents, then this obligation shall be void.  
If the Principal shall fail to execute the proposed Contract, the Surety hereby agrees to pay to the County the  
penal sum as liquidated damages.

Signed and sealed this 3rd day of April, 2023.

Roy Houck Construction, LLC  
Principal

By:  \_\_\_\_\_

Travelers Casualty and Surety Company of America  
Surety

By:  \_\_\_\_\_  
Attorney-in-Fact Brandi Davis

A certified copy of the Agent's  
Power-of-Attorney must be  
Attached hereto.



Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company  
Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Brandi Davis of Missoula, MT, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge the following bond:

Surety Bond No.: Bid Bond  
OR

Principal: Roy Houck Construction, LLC  
Obligee: Marion County

Project Description: Asphalt Concrete Resurfacing of Various Marion County Roads

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

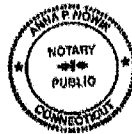
City of Hartford ss.

By: [Signature]  
Robert L. Raney, Senior Vice President

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



[Signature]  
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 3rd day of April, 2023.



[Signature]  
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.  
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

Bond No. 107786003

PERFORMANCE BOND

(NOTE: CONTRACTORS MUST USE THIS FORM, NOT A SURETY COMPANY FORM)

KNOW BY ALL PERSONS BY THESE PRESENTS:

We the undersigned Roy Houck Construction, LLC as PRINCIPAL (hereinafter called CONTRACTOR), and Travelers Casualty and Surety Company of America a corporation organized and existing under and by virtue of the laws of the state of CT duly authorized to do surety business in the state of Oregon and named on the current list of approved surety companies acceptable on federal bonds and conforming with the underwriting limitations as published in the Federal Register by the audit staff of the Bureau of Accounts and the U.S. Treasury Department and is of the appropriate class for the bond amount as determined by Best's Rating System, as SURETY, hereby hold and firmly bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, to pay to MARION COUNTY as OBLIGEE (hereinafter called MARION COUNTY), the amount of Three Million Three Hundred Fifty Three Thousand Six Hundred Fifty and 85/100 Dollars (\$3,353,650.85) in lawful money of the United States of America:

WHEREAS, the CONTRACTOR entered into a contract with MARION COUNTY dated                     , 2023, which Contract is hereunto annexed and made a part hereof, for accomplishment of the project described as follows: Asphalt Concrete Resurfacing of Various Marion County Roads

NOW, THEREFORE, the condition of this obligation is such that if the CONTRACTOR shall promptly, truly and faithfully perform all the undertakings, covenants, terms, conditions, and agreements of the aforesaid contract and having performed its obligations thereunder, then this obligation shall be null and void; otherwise it shall remain in full force and effect until the expiration of any statutes of limitation or ultimate repose applicable to claims against Principal arising out of said Contract or for as long as CONTRACTOR is liable under the Contract, whichever is later.

Whenever CONTRACTOR shall be declared by MARION COUNTY to be in default under the Contract Documents for the project described herein, the SURETY may promptly remedy the default, or shall promptly complete the project in accordance with the Contract Documents and the project Specifications with a contractor approved by MARION COUNTY. SURETY, for value received, further stipulates and agrees that all changes, extensions of time, alterations, or additions to the terms of the Contract or Specifications for Asphalt Concrete Resurfacing of Various Marion County Roads are within the scope of the SURETY's undertaking on this bond, and SURETY hereby waives notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Work or to the Specifications. Any such change, extension of time, alteration or addition to the terms of the Contract or to the Work or to the Specifications shall automatically increase the obligation of the Surety hereunder in a like amount, provided that such increase shall not exceed twenty-five percent (25%) of the original amount of the obligation without the consent of the Surety.

This obligation shall continue to bind the PRINCIPAL and SURETY, notwithstanding successive payments made hereunder, until the full amount of the obligation is exhausted.

No right of action shall accrue on this bond to or for the use of any person or corporation other than MARION COUNTY, its respective heirs, executors, administrators, successors or assigns.

If more than one SURETY is on this bond, each SURETY hereby agrees that it is jointly and severally liable for obligations on this bond.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 25 day of April, 2023.

Travelers Casualty and Surety Company of America  
SURETY

Roy Houck Construction, LLC  
CONTRACTOR

By: Brandi Davis

By: [Signature]

Title: Brandi Davis Attorney in Fact

Title: [Signature] Roy Houck III member

One Tower Square  
Street Address

4444 22nd Ave. NE  
Street Address

Hartford      CT  
City          State      ZIP

Salem          OR          97301  
City              State        ZIP

406-238-1907  
Phone Number

503-463-7177  
Phone Number

Bond No. 10786003

LABOR AND MATERIALS PAYMENT BOND  
(NOTE: CONTRACTOR MUST USE THIS FORM, NOT A SURETY COMPANY FORM)

KNOW ALL PERSONS BY THESE PRESENTS:

We the Undersigned Roy Houck Construction, LLC as PRINCIPAL and Travelers Casualty and Surety Company of America a corporation organized and existing under and by virtue of the laws of the state of CT, and duly authorized to do surety business in the state of Oregon and named on the current list of approved surety companies acceptable on federal bonds and conforming with the underwriting limitations as published in the Federal Register by the audit staff of the Bureau of Accounts and the U.S. Treasury Department and which carries an "A" rating and is of the appropriate class for the bond amount as determined by Best's Rating System, as SURETY, hereby hold and firmly bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, unto MARION COUNTY, as OBLIGEE, in the sum of Three Million Three Hundred Fifty Three Thousand Six Hundred Fifty and 85/100 Dollars (\$3,353,650.85) in lawful money of the United States of America, for the payment of that sum for the use and benefit of claimants as defined below.

The condition of this obligation is such that whereas the PRINCIPAL entered into a contract with MARION COUNTY dated \_\_\_\_\_, 20\_\_\_\_, which contract is hereunto annexed and made a part hereof, for accomplishment of the project described as follows: Asphalt Concrete Resurfacing of Various Marion County Roads

NOW THEREFORE, if the PRINCIPAL shall promptly make payments to all persons, firms, subcontractors, corporations and/or others furnishing materials for or performing labor in the prosecution of the Work provided for in the aforesaid Contract, and any authorized extension or modification thereof, including all amounts due for materials, equipment, mechanical repairs, transportation, tools and services consumed or used in connection with the performance of such Work, and for all labor performed in connection with such Work whether by subcontractor or otherwise, and all other requirements imposed by law, then this obligation shall become null and void; otherwise this obligation shall remain in full force and effect, until the expiration of any statutes of limitation or ultimate repose applicable to claims against Principal arising out of said Contract or for as long as CONTRACTOR is liable under the Contract, whichever is later, subject, however, to the following conditions:

1. A claimant is as specified in ORS 279C.600 to 279C.620.
2. The above-named PRINCIPAL and SURETY hereby jointly and severally agree with the OBLIGEE and its assigns that every claimant as above-specified, who has not been paid in full, may sue on this bond for the use of such claimant, prosecute the suit to final judgment in accordance with ORS 279C.610 for such sum or sums as may be justly due claimant, and have execution thereon. The OBLIGEE shall not be liable for the payment of any judgment, costs, expenses or attorneys' fees of any such suit.

PROVIDED, FURTHER, that SURETY for the value received, hereby stipulates and agrees that all changes, extensions of time, alterations to the terms of the Contract or to Work to be performed thereunder or the Specifications accompanying the same shall be within the scope of the SURETY's undertaking on this bond, and SURETY does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Work or to the Specifications. Any such change, extension of time, alteration or addition to the terms of the contract or to the Work or to the Specifications shall automatically increase the obligation of the SURETY hereunder in a like amount, provided that the total of such increases shall not exceed twenty-five percent (25%) of the original amount of the obligation without the consent of the SURETY.

This obligation shall continue to bind the PRINCIPAL and SURETY, notwithstanding successive payments made hereunder, until the full amount of the obligation is exhausted, or if the full amount of the obligation is not

exhausted and no claim is pending resolution, until such time as no further claims can be made pursuant to law with regard to the above-described project, by any claimant specified in ORS 279C.600.

If more than one SURETY is on this bond, each SURETY hereby agrees that it is jointly and severally liable for all obligations of this bond.

IN WITNESS WHEREOF, we have hereunto set our hands and seals this 25 day of April, 2023.

Travelers Casualty and Surety Company of America  
SURETY

Roy Houck Construction, LLC  
CONTRACTOR

By: Brandi Davis

By: Roy Houck III

Title: Brandi Davis Attorney in Fact

Title: Member

One Tower Square  
Street Address

4444 22nd Ave. NE  
Street Address

Hartford, CT  
City, State Zip

Salem, OR 97301

406-238-1907  
Phone Number

503-463-7177  
Phone Number



Travelers Casualty and Surety Company of America  
Travelers Casualty and Surety Company  
St. Paul Fire and Marine Insurance Company  
Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint Brandi Davis of Missoula, MT, their true and lawful Attorney(s)-in-Fact to sign, execute, seal and acknowledge the following bond:

Surety Bond No.: 107786003

Principal: Roy Houck Construction, LLC

OR

Obligee: Marion County

Project Description: Asphalt Concrete Resurfacing of Various Marion County Roads

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed, and their corporate seals to be hereto affixed, this 21st day of April, 2021.



State of Connecticut

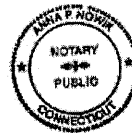
By: *Robert L. Raney*  
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the 21st day of April, 2021, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the 30th day of June, 2026



*Anna P. Nowik*  
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

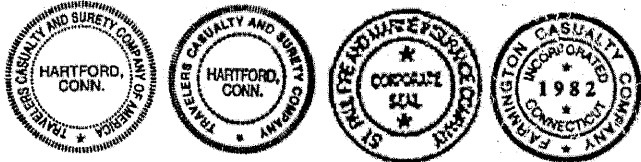
**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 25th day of April, 2023.



*Kevin E. Hughes*  
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.  
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.



DRUG & ALCOHOL TESTING POLICY CERTIFICATION

Has your firm established and implemented a drug and alcohol policy and testing program that complies with ORS 279C.505 for public improvement contracts?

  x   Yes                                 No


I hereby certify that the information provided on this form is true and accurate to the best of my knowledge.

Please print or type:

Company Name   Roy Houck Construction LLC  

Name/Title   Roy Houck III    Member  

Address   4444 22nd Ave NE, Salem OR 97301  

Signature 
Date <u>  April 12, 2023  </u>

## FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM INSTRUCTIONS

### Instructions for Submitting Form

Submittal of the First-Tier Subcontractor Disclosure Form is mandatory for all public improvement project bids estimated to exceed \$100,000. Submit the First-Tier Subcontractor Disclosure Form in one of the following manners:

- By filling out the Subcontractor Disclosure Form included in the Invitation To Bid and submitting it, in PDF format, together with the Bid documents to the Agency's Procurement Collaboration Portal at the time designated for receipt of Bids; or
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink, and submitting it separately, in PDF format, to the "My Company Info" page within the Agency's Procurement Collaboration Portal; or
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink and submitting it separately in a sealed envelope to the receptionist at Marion County Public Works, Building 1, 5155 Silverton Road NE, Salem Oregon 97305. The envelope shall be plainly labeled "First-Tier Subcontractors for Bid on Asphalt Concrete Resurfacing of Various Marion County Roads PW1336-23" (see Invitation To Bid cover page).

### Instructions for First-Tier Subcontractor Disclosure

Use the First-Tier Subcontractor Disclosure Form to disclose all subcontracts included in the Bid that are equal to or greater than the following:

1. Five percent (5%) of the total project Bid or \$15,000, whichever is greater, or
2. \$350,000 regardless of the percentage of the total project Bid

Disclose the following information for each subcontractor:

- The name of the subcontractor
- The category of work that the subcontractor will be performing
- The dollar amount of the subcontract

If your Bid includes no subcontractors or if your Bid includes no contracts that are equal to or greater than the disclosure criteria, above, you are still required to submit the form, with the appropriate box checked or enter "NONE" on the first line.

THE AGENCY MUST REJECT BIDS if the Bidder fails to submit the disclosure form with this information by the stated deadline.

FIRST-TIER SUBCONTRACTOR DISCLOSURE FORM

Project Name Resurfacing of Various Marion County Roads

ECMS Contract # 2023-101

Bid Opening Date April 13, 2023

Name of Bidding Contractor Roy Houck Construction LLC

CHECK THIS BOX IF YOU WILL NOT BE USING ANY FIRST-TIER SUBCONTRACTORS OR IF YOU ARE NOT SUBJECT TO THE DISCLOSURE REQUIREMENTS (SEE INSTRUCTIONS).

FIRST-TIER SUBCONTRACTORS

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

Firm Name	Dollar Amount
Category of Work	

(Attach additional sheets as necessary)

## SPECIAL PROVISIONS

### SECTION 00110 – ORGANIZATIONS, CONVENTIONS, ABBREVIATIONS, AND DEFINITIONS

Comply with Section 00110 of the General Conditions.

### SECTION 00120 – BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the General Conditions modified as follows:

**00120.00 Prequalification of Bidders** – Revise this section as follows:

Replace the address in the first bullet with the following:

Oregon Department of Transportation  
355 Capital St. NE  
Salem, OR 973011

Replace the address in the second bullet with the following:

ODOT Procurement Office – Construction Contracts Unit, MS# 5-1  
355 Capital St. NE  
Salem, OR 97301

**00120.01 General Bidding Requirements** – Replace the first sentence with the following:

Submit bids through the internet (electronic) in PDF format only.

**00120.05 Request for Invitation to Bid** – Replace the first paragraph with the following:

An Invitation to Bid (ITB) can be obtained for free by registering on the Agency's Procurement Collaboration Portal website at <https://contracts.co.marion.or.us/gateway/> and then searching for the solicitation listed in the advertisement and ITB cover sheet.

Delete the second paragraph.

**00120.16(a) Written Request** – Replace this subsection except for the subsection number and title, with the following:

Unless specified as the subject of an exemption per ORS 279C.345, if a Bidder proposes to use Materials, Equipment, products, and/or methods other than those specified, the Bidder shall submit a written request through the Agency's Procurement Collaboration Portal, at least 7 Calendar Days prior to Bid Opening, including complete descriptive and technical information on the proposed Materials, Equipment, products, and/or methods.

**00120.30 Changes to Plans, Specifications or Quantities before Opening of Bids** – Replace the first paragraph with the following:

The Agency reserves the right to issue Addenda making changes or corrections to the Plans, Specifications, or quantities. The Agency will provide Addenda by publishing them on the Agency's Procurement Collaboration Portal website at <https://contracts.co.marion.or.us/gateway/>. Bidders shall be solely responsible to check the Procurement Collaboration Portal for Addenda periodically, including daily, as necessary, to receive all Addenda applicable to the Bid.

**00120.40(a) Paper Bids** - Replace this subsection with the following:

**00120.40(a) Electronic Bids** - Bidders shall download the Invitation to Bid documents from the Agency's Procurement Collaboration Portal. Bidders shall not alter, in any manner, the documents within the Invitation To Bid. Bidders shall complete the certifications and statements included in the Invitation To Bid according to the instructions. Signature of the Bidder's authorized representative thereon constitutes the Bidder's confirmation of and agreement to all certifications and statements contained in the Invitation To Bid. Entries on the documents in the Invitation To Bid shall be in ink or typed. Signatures and initials shall either be in ink or electronic.

**00120.40(c) Bid Schedule Entries** - Replace this subsection with the following:

**00120.40(c) Electronic Bid Schedule Entries** - Using figures, Bidders shall fill in all bid item unit prices in the electronic Bid Schedule spreadsheet file. The total bid item price will be automatically calculated and entered. The unit price shall be greater than zero. Once all unit prices are entered, the total amount of the Bid will be automatically calculated and entered. It is the Bidder's responsibility to verify the accuracy of all automatically calculated figures.

**00120.40(e) Bid Guarantee** – Add the following to the end of this subsection:

A scanned (PDF) copy of the bid guarantee shall be submitted electronically through the Agency's Procurement Collaboration Portal along with the bid. The Bidder shall immediately provide hard copies of the original bid security documentation to the Agency if requested.

**00120.40(f) Disclosure of First-Tier Subcontractors** – Revise this subsection as follows:

In the sentence "The Subcontractor Disclosure Form may be submitted ...", delete "paper".

Replace the two bullets that follow the sentence "The Subcontractor Disclosure Form may be submitted ..." with the following:

- By filling out the Subcontractor Disclosure Form included in the Invitation To Bid and submitting it, in PDF format, together with the Bid documents to the Agency's Procurement Collaboration Portal at the time designated for receipt of Bids; or
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink, and submitting it separately, in PDF format, to the "My Company Info" page within the Agency's Procurement Collaboration Portal.
- By removing it from the Invitation To Bid, filling it out, signing and dating in ink and submitting it separately in a sealed envelope to the receptionist at Marion County Public Works, Building 1, 5155 Silverton Road NE, Salem Oregon 97305. The envelope shall be plainly labeled "First-Tier Subcontractors for Bid on [Project name]" (see Invitation To Bid cover page).

**00120.45(a) Paper Bids** – Delete this subsection, paper bids will not be accepted.

**00120.45(b) Electronic Bids** - Replace this subsection, except for the subsection number and title with the following:

Submit electronic Bids to the Agency's Procurement Collaboration Portal website at <https://contracts.co.marion.or.us/gateway/>. Electronic Bids will be considered time-stamped and received by the Agency at the time they are uploaded to the Procurement Collaboration Portal.

Bids submitted after the time set for receiving Bids will not be opened or considered.

Preparation and submission of Bids is at the sole risk and expense of the Bidder and is not a cost of contract performance.

**00120.60 Revision or Withdrawal of Bids** - Revise this section as follows:

In the first sentence, replace the word “paper” with “electronic”.

Replace the second bulleted line with the following:

- Changes are uploaded to the Agency’s Procurement Collaboration Portal prior to the time identified in the Invitation To Bid for submitting bids and identified as “updated bid”; and

In the sentence after the third bullet, replace the word “paper” with “electronic”.

Replace the last bullet in this section with the following:

- The request is uploaded to the Agency’s Procurement Collaboration Portal prior to the time identified in the Invitation To Bid for submitting Bids.

**00120.65 Opening and Comparing Bids** – In the first sentence, before the word “Bids”, add “Electronic”.

**00120.70 Rejection of Non-responsive Bids** – In the seventh bulleted line, add “or electronically affixed.” To the end of the sentence.

## **SECTION 00130 – AWARD AND EXECUTION OF CONTRACT**

**00130.10 Award of Contract** – Replace the sentence that begins with “The Agency will post ...” with the following:

The Agency will post Notice of Intent to Award on the Agency’s Procurement Collaboration Portal website at <https://contracts.co.marion.or.us/gateway/>.

Replace the last paragraph with the following:

Notice of Award will be sent within 14 Calendar Days after the opening of Bids or within the number of Calendar Days specified in the Special Provisions or a written mutual agreement.

**00130.50(a) By the Bidder** – Replace this subsection, except for the subsection number and title, with the following:

**(1)** The successful Bidder shall deliver one original copy of the properly executed Performance Bond and Payment Bond, along with certification of workers' compensation coverage, and all required certificates of insurance, to the Agency within 10 Calendar Days after the date of Notice of Intent to Award.

Certificates of insurance for coverages that are permitted by the Agency under 00170.70(a) to be obtained by appropriate Subcontractors shall be delivered by the Contractor to the Agency together with the Contractor's request under 00180.21 for approval of the subcontract with that Subcontractor.

**(2)** Within 7 Calendar Days after receipt of the Agency-signed Contract booklet, the Bidder shall return a fully-executed Contract booklet to the Agency.

**00130.50(b) By the Agency** - Replace this subsection, except for the subsection number and title, with the following:

Within 21 Calendar Days after the Agency has received and verified the properly executed documents specified in 00130.50(a)(1), and received legal sufficiency approval from the Agency's attorney (if required),

the Agency will execute the Contract. The Agency will then send an Agency-signed original Contract booklet to the successful Bidder, who will execute the Contract as specified in 00130.50(a)(2). Upon final execution, the Bidder officially becomes the Contractor.

**SECTION 00140 SCOPE OF WORK**

Comply with Section 00140 of the General Conditions.

**SECTION 00150 - CONTROL OF WORK**

Comply with Section 00150 of the General Conditions modified as follows:

Add the following subsection:

**00150.42 Cooperation with County Crews** – The Contractor is advised that the availability of Agency personnel on this Project is limited. Crews designated by the Agency to perform striping will be made available based on the Contractor’s approved schedule. Deviations from the approved schedule will require a 72 hour notice to reschedule Agency crews. If required notice is not provided, the Contractor will be required to provide necessary delineation at his own expense according to Subsection 00225.43(e) of the Standards Specifications and Standard Drawing TM810.

**00150.50(c) Contractor Responsibilities** – Replace the bullet that begins "Determine the exact location before excavating within ..." with the following bullet:

- Determine the exact location before excavating within the tolerance zone according to OAR 952-001-0090(3)(c);

Add the following bullet at the end of the list:

- When energized power lines overhang portions of the Work with a minimum vertical clearance of 18 feet. The Contractor shall maintain at least 10 feet of safety clearance. Exceptions require written approval from the Power Supplier(s) and may require an on-site safety watcher, at no cost to the Contractor. The Contractor shall provide the Engineer a copy of the written approval of exception before beginning Work.

Add the following subsection:

**00150.50(f) Utility Information** – There are no anticipated conflicts with the utilities listed below

	<b>Utility Contact</b>	<b>Phone</b>
1.	AT&T	Tom Normoyle 503-588-1899
2.	Lumen	Travis Vaughn 503-749-0347
3.	NWN	Darrell Hammond 541-981-0164
4.	Comcast	Chris Crawford 503-476-2477
5.	Pacific Power	Damaged Lines 877-508-5088

6. PGE

Service Coordination Center

503-463-4348

### **SECTION 00160 - SOURCE OF MATERIALS**

Comply with Section 00160 of the Standard Specifications.

### **SECTION 00165 - QUALITY OF MATERIALS**

Comply with Section 00165 of the Standard Specifications modified as follows:

**00165.10(a) Field-Tested Materials** - Add the following sentence to this subsection:

Material testing will be according to Section 5 of the MFTP for a Type D Project.

### **SECTION 00170 - LEGAL RELATIONS AND RESPONSIBILITIES**

Comply with Section 00170 of the General Conditions modified as follows:

**00170.00 General** - Replace the paragraph that begins " The Contractor shall comply with all laws, ordinances, ..." with the following paragraph:

The Contractor shall comply with all laws, ordinances, codes, regulations, executive orders and administrative rules (collectively referred to as "Laws" in this Section) that relate to the Work or to those engaged in the Work. Where the provisions of the Contract are inconsistent or in conflict, the Contractor shall comply with the more stringent standard.

Add the following subsection:

**00170.01(e) Railways** – The contractor is required to obtain an agreement for ECMS 2023-101 to perform work within the railroad right-of-way.

The contractor shall obtain from the railroad all necessary permits and licenses and pay all fees. Furnish a copy of the fully executed agreement and requirements to the Engineer before starting any work within the railroad right-of-way.

Willamette Valley Railroad Crossing for ECMS 2023-101 are as follows:

Project #4, Macleay Rd SE  
Crossing Location: 541 east of 62<sup>nd</sup> Avenue SE.  
Crossing Number, ODOT: CC-717-50  
Crossing Number, USDOT: 760189H  
Railroad ROW width – 25 feet each side of the tracks

Contact:

Willamette Valley Railroad:  
David Root, General Manager  
PO Box 917  
McMinnville, Oregon 97128  
Phone: 503-474-1892



**00170.02 Permits, Licenses, and Taxes** – After the second bullet, add the following bullet:

- For the sections of Macleay Road and Cordon Road that are within Salem city limits, obtain a Work in Right of Way permit from the City of Salem, the application is available at:

<https://www.cityofsalem.net/business/building-in-salem/help/apply-for-a-work-in-public-right-of-way-permit#:~:text=If%20you%20want%20to%20work,Lane>

**00170.70(a) Insurance Coverages** – Add the following after the first paragraph:

<b>Insurance Coverages per Occurrence</b>	<b>Combined Single Limit</b>	<b>Annual Aggregate Limit</b>
Commercial General Liability	\$1,000,000	\$2,000,000
Commercial Auto Liability	\$1,000,000	(Aggregate limit not required)

**00170.70(h) Railroad Insurance** – Add the following three paragraphs:

The contractor shall obtain insurance from the railroad, for each project or as required by the railroad, and as required by the conditions of the permits to occupy the railway right-of-way.

The Agency will pay the actual cost invoiced for Railroad Protective Liability Insurance up to \$5400 per project. This is the estimated cost of Railroad Insurance for each crossing in this Contract. The contractor must provide copies of the invoices to the county for reimbursement,

The Agency will not reimburse the contractor for the cost Railroad Protective Liability Insurance in excess of the amount noted above.

**SECTION 00180 – PROSECUTION AND PROGRESS**

Comply with Section 00180 of the General Conditions modified as follows:

Add the following Subsection:

**00180.40(c) Specific Limitations** - Limitations of operations specified in these Special Provisions and the General Conditions include, but are not limited to, the following:

<b>Limitations</b>	<b>Subsection</b>
Cooperation with Utilities .....	00150.50
Cooperation with Other Projects.....	00156.56
Railway Work .....	00170.01(e)
Contract Completion Time .....	00180.50(h)
Traffic Lane Restrictions .....	00220.40(e)
Holidays and Special Events .....	00220.40(e)
Load Restricted Bridges.....	00220.45
Noise Control .....	00290.32
Maintenance Under Traffic .....	00620.43
Opening Sections to Traffic .....	00745.51

Be aware of and subject to schedule limitations in the Standard Specifications that are not listed in this subsection.

**00180.41 Project Work Schedules** - Add the following paragraph:

The Contractor shall submit either a Type “A”, Type “B” or Type “C” schedule.

**00180.42 Preconstruction Conference** – Add the following sentence:

The meeting is to include but not limited to representative from; Marion County Public Works, Contractor, Subcontractor’s, Contractor’s quality control personnel, railroad and utilities.

**00180.50(h) Contract Time** – Complete all Work to be done under the Contract before the elapse of the Time for Completion of Work listed in the Introduction.

**00180.80(d) Basis for Adjustment of Contract Time** – Replace the second to the last bullet in this subsection with the following bullet:

- Reasonably predictable weather conditions; or

**00180.85(b) Liquidated Damages** - Replace the first paragraph with the following:

Marion County will sustain damage if the Work required under the Contract is not completed within the specified Contract Time. The actual damage the County will sustain will be impossible to accurately determine. Therefore, the Contractor agrees to pay to the County, not as a penalty but as liquidated damages, any or all of the following:

**(1) ECMS 2023-101**

- (a) The amount of \$805 for each Calendar Day used in excess of the Contract Time or adjusted Contract Time for all Work under the Contract.
- (b) For a project within the Contract, the amount specified below for each calendar day that the construction of driveway approaches, mailbox turnouts, aggregate shoulders, and sand and seal of joints are not completed within 10 Calendar Days after completion of mainline paving according to 00180.43.

Project No. 1	Lardon Road NE	\$600
Project No. 2	State Street SE	\$350
Project No. 3	62nd Avenue SE	\$300
Project No. 4	Macleay Road SE	\$350
Project No. 5	Culver Drive SE	\$350
Project No. 6	75 <sup>th</sup> Avenue SE	\$300
Project No. 7	Reflective Markers	\$25

- (c) The amount of \$100 per 1/4 hour that a traffic lane is closed before or after the hours specified in Section 00220.40(e) unless a time extension is preapproved by the Engineer. In addition to the liquidated damages, all added cost for traffic control measures, including flagging, required to maintain the lane closures beyond the allowed time limits, will be at no additional cost to the Agency.
- (d) The amount specified in 00180.85(b)(1-b) will apply for each Calendar Day pavement delineation on a project is not installed and maintained according to 00225.43(h).

Calendar Day amounts are applicable when the Contract Time is expressed on the Calendar Day or fixed date basis.

## SECTION 00190 - MEASUREMENT OF PAY QUANTITIES

Comply with Section 00190 of the General Conditions modified as follows:

**00190.20(a) General** - Replace the paragraph that begins "Unless otherwise provided in the Contract, Pay ..." with the following paragraph:

Unless otherwise provided in the Contract, Pay Items to be measured by weight shall include all Contractor costs for providing, maintaining, inspecting, and testing scales; for furnishing appropriate weigh tickets; for self-printing scales; for electronic weigh memo system(s); and for transporting Materials to the scales or to check weighing.

**00190.20(f)(1) Scale with Automatic Printer** – In the first paragraph, replace the first sentence with the following sentence:

If the scales have an automatic weigh memo printer or an approved electronic weigh memo system that does not require manual entry of gross weight information, the Agency may periodically have a representative at the scales to observe the weighing procedures.

**00190.20(f)(2) Scale Without Automatic Printer** - Replace the sentence that begins "The Contractor shall inform the Engineer of ..." with the following sentence:

The Contractor shall inform the Engineer of its intent to use a scale without an automatic printer at least 3 working Days before weighing begins or before the Contractor changes to a scale that does not have an automatic printer.

Add the following sentence after the first paragraph:

Pay costs for the weigh witness at \$40.00 per hour.

**00190.20(f)(3) Duties of Weigh Technician** - Delete the first four bullets.

**00190.20(f)(3) Duties of Weigh Technician** - Replace the bullet that begins "Furnish a legible, serially numbered weigh memo ..." with the following bullets:

- Furnish a legible, serially numbered weigh memo for each load of Materials to the Agency's Materials receiver at the point of delivery, or as directed by the Engineer. The memo shall identify the Project, the Materials, the date, net weight (gross and tare as appropriate), and identification of the vehicle and weigh technician. If approved by the Engineer an electronic weigh memo system may be used. Requests to use an electronic weigh memo system shall be submitted to the Engineer according to 00150.37, providing sufficient detail for the Engineer to perform an evaluation. If approved, the Contractor shall provide training, technical support, reports, and weigh memo information to the Engineer at no additional cost to the Agency. The electronic weigh memo system shall be:
- Capable of recording and securely retaining the same required "weigh memo" information identified above. For retention see 00170.07(c).
- Fully integrated with the provided weigh scale system.
- Designed in such a way that the data electronically read from scales cannot be altered by the Contractor, Subcontractor, Supplier, Engineer, or other system users.

- Designed to allow the Engineer remote access to all the weigh memo data in real-time and allow the Engineer to add comments to the individual weigh memo regarding waste, temperature, stations, yield or other information. The system shall identify the system user or individual that adds comments to the electronic weigh memo or otherwise access the system. The Contractor shall provide the Engineer a means to access the data if the Engineer cannot use an Agency provided hand held device for access.
- Capable of providing all the weigh memo information, including any added comments, in an electronic data file the Engineer can easily access without proprietary software.

**00190.20(g) Agency-Provided Weigh Technician** - Add the following paragraph after the bullet list:

Pay costs for the weigh technician at \$40.00 per hour.

**00190.30 Plant Scales** - After the bullet list add the following paragraph:

If approved by the Engineer an electronic weigh memo system may be used in place of a printer system. See 00190.20(f)(3).

## SECTION 00195 - PAYMENT

Comply with Section 00195 of the General Conditions modified as follows:

**00195.13 Asphalt Cement Material Price Escalation/De-escalation** – Replace this subsection, except for the subsection number and title, with the following:

An asphalt cement escalation/de-escalation clause will be in effect during the life of the Contract.

Subsections 00195.13, 00195.13(a), 00195.13(b), 00195.13(c), and 00195.13(d) contain the price escalation/de-escalation clause relating to asphalt cement materials (as defined in 00195.13(d)).

The Agency reserves all of its rights under the Contract, including, but not limited to, its rights for suspension of the Work under 00180.70 and its rights for termination of the Contract under 00180.90, and this escalation/de-escalation provision shall not limit those rights.

**(a) Monthly Asphalt Cement Material Price (MACMP)** - The Monthly Asphalt Cement Material Price (MACMP) is established by the Agency each month. For the actual MACMP, go to the Agency website at:

<https://www.oregon.gov/ODOT/Business/Pages/Asphalt-Fuel-Price.aspx>

The MACP will be established by ODOT each month and will be based on the published prices of PG-22 asphalt cement furnished by Poten & Partners, Inc. Portland, Oregon area prices and will be used as the basis of the MACMP. Each MACMP for a given month will be the average of the published prices for the MACMP for each Friday of the month.

**(b) Base Asphalt Cement Material Price (Base)** - The base asphalt cement material price for this Project is the MACMP published on the Agency website for the month immediately preceding the Bid Opening date.

**(c) Monthly Asphalt Cement Adjustment Factor** - The monthly asphalt cement adjustment factor will be determined each month as follows:

- If the MACMP is within  $\pm 5\%$  of the Base, there will be no adjustment.

- If the MACMP is more than 105% of the Base, then:

$$\text{Adjustment Factor} = (\text{MACMP}) - (1.05 \times \text{Base})$$

- If the MACMP is less than 95% of the Base, then:

$$\text{Adjustment Factor} = (\text{MACMP}) - (0.95 \times \text{Base})$$

**(d) Asphalt Cement Price Adjustment** – If specified in the Special Provisions, an asphalt cement escalation/de-escalation clause will be in effect during the life of the Contract. A price adjustment will be made for the asphalt cement contained in each ACP Pay Item. The adjustment factor as calculated in 00195.13(c) above will use the MACMP for the month the asphalt is incorporated into the Project. Using the Adjustment calculated in 00195.13(c), the price adjustment for Asphalt Concrete incorporated into the project for the applicable month will be determined by the following formula:

- Price Adjustment = (Adjustment) x (Asphalt Content (%)) x (Tons of Asphalt Concrete Incorporated)

The asphalt content (%) is the asphalt content according to the approved Job Mix Formula (JMF) for the asphalt concrete placed. The price adjustment will be entered as the quantity for the item “ACP Material Price Adjustment”.

**00195.50(a) Progress Payments** - Replace the paragraph that begins "The estimates upon which progress payments are ..." with the following paragraph:

The estimates upon which progress payments are based are not represented to be accurate estimates. All estimated quantities are subject to correction in the final estimate. If the Contractor uses these estimates as a basis for making payments to Subcontractors and Suppliers, the Contractor assumes all risk and bears any losses that result.

#### **SECTION 00196 – PAYMENT FOR EXTRA WORK**

Comply with Section 00196 of the General Conditions.

#### **SECTION 00197 - PAYMENT FOR FORCE ACCOUNT WORK**

Comply with Section 00197 of the General Conditions.

#### **SECTION 00199 – DISAGREEMENTS, PROTESTS, AND CLAIMS**

Comply with Section 00199 of the General Conditions

#### **SECTION 00210 - MOBILIZATION**

Comply with Section 00210 of the Standard Specifications.

#### **SECTION 00220 - ACCOMMODATIONS FOR PUBLIC TRAFFIC**

Comply with Section 00220 of the Standard Specifications modified as follows:

**00220.02(a) General Requirements** - Add the following bullets to the end of the bullet list:

- Marion County will provide preliminary notification to adjacent property owners which will contain general information.
- The contractor will provide written notice to adjacent property owners and/or businesses 72 hours before beginning work. The notice shall contain the following information:
  - Construction dates.
  - Construction hours.
  - Construction activities that may impact them.
  - Limitations to access driveways.
- When an abrupt edge is created by excavation, protect traffic according to the "Excavation Abrupt Edge" and the "Typical Abrupt Edge Delineation" configurations shown on the Standard Drawings.
- When paving operations create an abrupt edge, protect traffic by installing a "DO NOT PASS" (R4-1) sign before the Work Area at sign spacing "A" from the TCD Spacing Table" shown on the Standard Drawings. Alternate "ABRUPT EDGE" (CW21-7) signs with appropriate (CW21-8) rider and "DO NOT PASS" (R4-1) signs at 1/2 mile spacings. Install a "BUMP" (W8-1) sign 100 feet prior to the transverse paving edge.

**00220.40(e)(1) Closed Lanes** - Replace this subsection, except for the subsection number and title, with the following:

**On Lane Closure** - One Traffic Lane may be closed when allowed, shown, or directed during the following periods of time except as specified in 00220.40(e)(2):

- Daily, Monday through Friday, between 7:00 a.m. and 7:00 p.m.

**Two Lane Closure** – Two traffic lane may be closed when allowed, shown or directed during the following:

- Daily, Monday through Friday, between 7:00 a.m. and 7:00 p.m.

The road may be closed not more than three Days. Inspect detour signs throughout the day and replace damaged signs as needed or directed by the engineer.

**SECTION 00221 - COMMON PROVISIONS FOR WORK ZONE TRAFFIC CONTROL**

Comply with Section 00221 of the Standard Specifications modified as follows:

**00221.03 Traffic Safety and Operations** - Replace the bullet that begins "When paving operations create..." with the following bullet:

- When paving operations create an abrupt or sloped edge drop off greater than 1 inch, protect traffic by installing signing according to the "2 Lane, 2 Way Roadway Overlay Area" detail shown on the Standard Drawings. Protect longitudinal and transverse Pavement joints by placing and maintaining an asphalt concrete wedge according to 00221.07(c)(1).

**00221.07(c)(1) Paving** - Replace this subsection, except subsection number and title, with the following:

When the longitudinal joint is greater than 1 inch in height, install additional TCD according to 00221.03. Complete the placing of ACP and construction of paving joints according to 00735.48, 00735.49, 00743.45, 00744.44, 00744.45, 00745.47, and 00745.48, as applicable.

**00221.90(b) Temporary Protection and Direction of Traffic** - Delete the bullet that begins "Moving temporary barrier to and from Contractor's stockpile areas".

Replace the bullet that begins "When the Schedule of Items does not include ..." with the following bullet:

- Preparing and signing the daily "Traffic Control Inspection Report", when a TCS is not included in the Schedule of Items or when a TCS is not onsite for a work shift.

## **SECTION 00222 – TEMPORARY TRAFFIC CONTROL SIGNS**

Comply with Section 00222 of the Standard Specifications modified as follows:

**00222.40(e) Temporary Sign Placement** - Add the following to the end of the bullet list:

- Install an 18 by 24-inch "NO PARKING" sign in every block where on-street parking is prohibited, facing incoming traffic.
- When a traffic is allowed to drive on the cold planed pavement surface, install the following temporary signs:
  - "BUMP" (W8-1) sign approximately 100 feet in advance of the transverse pavement edge.
  - "GROOVED PAVEMENT" (W8-15) sign in advance of the "BUMP" sign at a spacing "A: from the "TCD Spacing Table" shown on the Standard Drawings, or as directed.
- When the existing centerline striping on the road way is obliterated the contractor shall:
  - Place a "NO CENTER LINE" (W8-12) sign approximately 2,500 feet in advance of each end of the Project.
  - Place a "NO CENTERLINE" (W-12) sign on approximately 2 mile intervals for each direction of traffic.
  - Place a "DO NOT PASS" (R4-1) sign on each side of the roadway at the beginning and end of the project, and at mile intervals facing oncoming traffic.
- When the paving operation creates a vertical drop-off and the road will be used by traffic, alternate "ABRUPT EDGE" (CW21 7) signs with the appropriate (CW21 8) rider at ½ mile spacings.

Face sign toward oncoming traffic and install them before opening the road to public traffic.

**00222.80(a) Area Basis** - Delete this subsection.

**00220.90(a) Temporary Signs** – Delete this bid item.

## **SECTION 00223 - WORK ZONE TRAFFIC CONTROL LABOR AND VEHICLES**

Comply with Section 00223 of the Standard Specifications modified as follows:

**00223.31(b) Traffic Control Inspection Without TCS** - Replace the paragraph that begins "When the Schedule of Items does not include an item..." with the following paragraph:

When the Schedule of Items does not include an item for a TCS, or when TCS is not onsite for a work shift, designate a trained person who shall be on the Project Site during work hours and on call at all other times, and who:

Replace the bullet that begins "Prepares and signs a daily "Traffic Control Inspection Report"..." with the following bullet:

- Prepares and signs a "Traffic Control Inspection Report" (Form No. 734-2474) upon the initial installation of TCM and each working day when any modification, removal, or reinstallation of TCM are made, or as directed by the Engineer. Submit completed reports to the Engineer no later than the end of the next working day.

Add the following subsection:

**00223.35 Railroad Flagger Services** - In accordance with the Railroad's requirements to work on and within Railroad property, provide Railroad flagger services as required by Willamette Valley Railway Co.

Add the following subsection:

**00223.80(a)(4) Railroad Flagger Services** - The quantity of Railroad flagger services will be measured on the unit basis. A unit will be considered to be up to 12 consecutive hours in a Day. When more than one flagger is required due to Work at separate locations, each Railroad flagger will be measured as a separate unit. A maximum of two units per Day will be allowed at each separate location or operation where Railroad flagger services are required by the Railroad unless otherwise approved or directed.

**00223.90 Payment** - Add the following Pay Item(s) to the Pay Item list:

(g) Railroad Flagger Services ..... Not to Exceed \$4,000

Payment for item (g): When railway flagger services are required, the Agency will pay the actual cost invoiced for flagger services, not to exceed \$4,000 per project. This is the estimated cost of railway flagger services for each crossing in this Contract. The Contractor shall submit copies of the invoice to the county for processing reimbursement.

No additional payment will be made if railroad flagging services exceeding the amount specified above.

**SECTION 00224 - TEMPORARY TRAFFIC CHANNELIZING DEVICES**

Comply with Section 00224 of the Standard Specifications modified as follows:

**00224.46 Pavement Edge Delineation** - Replace the paragraph that begins "Place tubular or conical markers..." with the following paragraph:

Place tubular or conical markers to delineate the edge of Pavement immediately after construction Work or paving operations create an abrupt or sloped edge drop-off greater than 1 inch in height along the right hand or left hand Shoulder.

**00224.80 Measurement** - Replace this subsection, except subsection number and title, with the following:

No measurement of quantities will be made for work performed under this section.

**00224.90 Payment** - Replace this subsection, except subsection number and title, with the following:



No separate or additional payment will be made for work performed under this section.

## SECTION 00225 - TEMPORARY PAVEMENT MARKINGS

Comply with Section 00225 of the Standard Specifications modified as follows:

**00225.40 Temporary Pavement Markers** - Replace the paragraph that begins "Unless otherwise shown..." and the three bullets with the following paragraphs and bullets:

Install temporary flexible overlay pavement markers for temporary centerline marking as follows:

- Place and maintain two temporary flexible overlay pavement markers on 40 foot spacing or as directed.
- Place and maintain two temporary flexible overlay pavement markers on 20 foot spacing in curved alignment sections identified by a speed rider displaying less than the posted speed and channelization areas.
- For an 8 inch solid white stripe, place two white temporary flexible pavement markers abutting each other on 10 foot spacing.

**00225.41(b) Temporary Removable Tape** – Add the following paragraph:

Before opening the road to traffic, install temporary removable tape on each lift of pavement for the following:

- Temporary stop bars
- Temporary arrows

Add the following subsection:

**00225.42(e) Centerline delineation** – Before opening the roadway to traffic, install temporary centerline delineation as follows:

**(1) Wearing Course** – Install temporary flexible overlay markers according to 00225.40, and remove temporary flexible overlay pavement markers within 5 calendar day after notification that the permanent striping has been completed

**(2) Leveling Course and Base Course** – Centerline delineation may be either temporary flexible pavement overlay markers, or a 4 inch by 12 inch piece of temporary non-removable tape, as the contractor elects. Install temporary flexible overlay pavement markers according to 00225.40. Install temporary non-removable tape as follows:

- On centerline, place two 4 inch by 12 inch piece of non-removable tape on 20 foot spacing, or as directed.
- For an 8 inch solid white stripe, place two 4 inch by 12 inch piece of non-removable abutting each other on 10 foot spacing.
- Install temporary flexible overlay pavement markers facing oncoming traffic.
- Remove and replace misaligned markers at no additional cost to the agency.

The contractor may pave over temporary non-removable tape on the leveling course and base course of paving.

Remove temporary flexible overlay pavement markers before paving the next lift of asphalt.

Remove temporary flexible overlay pavement markers from the asphalt wearing course within 5 calendar days after notification that the permanent striping has been completed. Completely remove the temporary flexible

overlay pavement markers without damaging the new asphalt surface. Removed dislodged temporary flexible overlay pavement markers from shoulders and drainage ditches.

Add the following subsection:

**00225.80(3) Temporary Centerline Delineation** – Temporary Centerline Delineation will be measured on the count basis, by actual count as follows:

- (a) For each 4 inch by 12 inch piece of non-removable temporary tape.
- (b) For each flexible overlay pavement marker.

**00225.90 Payment** – Add the following bid item

- (m) Temporary Centerline Delineation.....Each

Item (m) includes temporary flexible pavement markers having either one or two reflective faces, and non-removable temporary tape.

**SECTION 00230 – TEMPORARY DETOUR ROUTE**

Section 00230, which is not a Standard Specification, is included in this Project by Special Provision.

**Description**

**00230.00 Scope** – This Work consists of installing signs, maintaining signs, and removing signs for detour route.

**Materials**

**00230.10 Materials** – Furnish signs according to 00222.10 and sign supports according to 00222.11.

**Construction**

**00230.40 Temporary Signing** – Install temporary detour signs before closing McCleay Road NE. Maintain signs on the detour route during the road closure.

**Maintenance**

**00230.60 Surface Maintenance** - Maintain temporary surfaces according to 00220.60.

**Finishing and Cleaning Up**

**00230.70 General** - When temporary detour is no longer needed:

- Remove all related materials.

**Measurement**

**00230.80 Measurement** - No measurement of quantities will be made for Work performed under this Section.

**Payment**

**00230.90 Payment** - The accepted quantities of Work performed under this Section, will be paid for at the Contract lump sum amount for the item "Temporary Detour Route".

Payment will be payment in full for installing, maintaining, and removing signs, and for furnishing and placing all Materials, and for furnishing all Equipment, labor, and Incidentals necessary to complete the Work as specified.

## **SECTION 00280 - EROSION AND SEDIMENT CONTROL**

Comply with Section 00280 of the Standard Specifications modified as follows:

### **00280.02 Definitions**

Replace the sentence that begins “**Temporary Stabilization**” with the following sentence:

**Temporary Stabilization** - Measures or methods necessary to prevent erosion until permanent stabilization measures are in place and established.

**00280.06 Erosion and Sediment Control Manager** - Delete this subsection.

**00280.62(a) Inspection and Monitoring** - Replace this subsection, except for the subsection number and title, with the following:

Perform site inspection, complete all applicable parts of the ODOT Erosion Control Monitoring Form, and submit the form to the Agency as follows:

- On initial day of construction activity
- Every 14 days
- 24 hours after any rainfall event or snow melt event that results in runoff, including weekends and holidays
- When directed by the Engineer.

No measurement of quantities will be made for work performed under this section.

**00280.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for “Erosion Control”.

**00280.91 Payment** - In the first sentence, replace “The accepted quantities of.....” with “When included in the schedule of items

## **SECTION 00290 - ENVIRONMENTAL PROTECTION**

Comply with Section 00290 of the Standard Specifications

## **SECTION 00330 - EARTHWORK**

Comply with Section 00330 of the Standard Specifications modified as follows:

**00330.03 Basis of Performance** - Add the following paragraph to the end of this subsection:

Perform all earthwork under this Section on the excavation basis

**00330.41(a)(9) Excavation Below Grade** - Delete subsection 00330.41(a)(9)(c).

**00330.80 Measurement** - Replace this subsection, except subsection number and title, with the following:

The quantities of earthwork will be measured on the length basis.

**00330.81 Excavation Basis Measurement** – Replace this subsection, except subsection number and title, with the following:

Excavation will be measured along the edge of pavement, measured to the nearest foot.

**00330.93 Excavation Basis Payment** - Replace this subsection, except subsection number and title, with the following:

The accepted quantities of excavation will be paid will be paid at the contract unit price per unit of measurement for the following item:

- (a) General Excavation, 3 inch Depth.....Foot

Payment will be payment in full for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

No additional payment will be made for the disposal of excavated materials.

**SECTION 00440 - COMMERCIAL GRADE CONCRETE**

Comply with Section 00440 of the Standard Specifications.

**SECTION 00490 - WORK ON EXISTING SEWERS AND STRUCTURES**

Comply with Section 00490 of the Standard Specifications modified as follows:

**00490.40 General** - After the first paragraph add the following paragraphs:

Replace existing aluminum rings with steel rings.

**00490.90 Payment** – In the last paragraph, add the following bullet to the list:

- Replacing aluminum grade rings with steel grade rings

**SECTION 00620 - COLD PLANE PAVEMENT REMOVAL**

Comply with Section 00620 of the Standard Specifications modified as follows:

**00620.40 Pavement Removal** - Replace this subsection, except for number and title, with the following:

- (a) **General** - Remove the existing pavement to the depth, width, grade and cross section as shown or directed. The use of a heating device to soften the pavement is not allowed.

- (b) **Inlay** - Remove the existing pavement to the depth, width, grade and cross section as shown or directed. Schedule the work so the full width and length of cold planed area is paved by the end of the same shift, and before opening the road to traffic.
- (c) **Overlay** - Construct a wedge of asphalt concrete 1V:50H or flatter along all transverse drop-offs during the same shift, and before opening the road to traffic.
- (d) **Utilities** - Within the same shift, construct a wedge around manholes, valve boxes and other structures that are over 1 inch but less than 2 inches above grade.

Temporarily lower manholes, valve boxes and other structures that are 2 inches or more above existing grade.

- (e) **Butt Joints** - Along the transverse edge, provide a smooth vertical edge the full depth of the cold planed area by saw cutting, jack hammer or other approved method. See "Edge Detail", Standard Drawing RD610, Asphalt Concrete Pavement (ACP) Details. Do not begin paving until the vertical edge is approved by the Engineer

**00620.40(e) Warning Signs** - Replace this subsection, except for the subsection number and title, with the following:

Provide warning signs as required where abrupt or sloped drop-offs occur at the edge of the existing or new surface according to Sections 00221 and 00222.

**00620.43 Maintenance Under Traffic** - Replace this subsection, except for the subsection number and title, with the following:

Traffic will be allowed on cold planed surfaces, except for those listed below, for up to 3 Calendar Days after removing the existing surface. Sweep and clean the cold planed surface before opening to traffic.

Before beginning paving operations, make repairs to the existing cold planed surface as directed. Payment for the repairs will be made according to 00195.20.

Traffic is not allowed on the cold planed surface as follows:

- Cold planed surface for inlays.
- Cold planed surface for asphalt concrete repair.

Before opening the area to traffic, pave the surface according to 00744.

## **SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS**

Add the following Subsection:

### **00641.01 Descriptive Terms**

**Crushed Round Rock** - A source of rock that does not require being "shot" or "blasted" to extract it from a source, or a round rocks less than 4 inches in diameter before crushing.

**Crushed Quarry Rock** - A source of rock is required to be "shot" or "blasted" to extract if from a source before crushing. When approved by the Engineer, round rock 4 inches or larger before crushing may substituted.

**00641.10(a) Base and Shoulder Aggregate** - Replace this subsection, except for the subsection number and title, with the following:

Aggregate for base and shoulder aggregate shall dense graded, and either 1" or 3/4" as the contractor elects. Furnish aggregates meeting the requirement so 02630.10.

- Base aggregate shall be crushed round rock or crushed quarry rock.
- Shoulder aggregate shall be crushed quarry rock, crushed round rock is not allowed on shoulders.

**00641.15(a) Aggregate Production Quality Control** - Delete the second sentence.

**00645.16(a)(1) Aggregate Gradation** - Replace this subsection, except for the subsection number and title, with the following:

Acceptance will be based on the contractor's quality control testing according to 00165.

A stockpile contains aggregate meeting specified gradation when the test results are in the upper and lower gradation limits. Aggregate that does not meet the upper and lower gradation limits will be considered non-specification.

**00641.16(a)(2) Non-specification Aggregate** - In the sentence that begins "Do not add material....." Delete ".....so that the QI for each sieve size is equal to or greater than the QL in table 00165-2 for a 1.00 PF"

Add the following subsection:

**00641.17 MFTP Small Quantity Revision** - In Section 4(b) of the MFTP, Field Tested Materials Small Quantity Guideline, in the second paragraph, delete the sentence that begins "The written request....".

Field Tested Materials Small Quantity Guideline (1) replace "ODOT" with "Marion County".

In the Small Quantity Table, 00641 & 00642 replace "2,000" with "1,000".

Add the following subsection:

**00641.18 MFTP Section 00641 Aggregate Subbase, Base and Shoulders** - In the 2019 MFTP, Section D, Field Tested Materials Guide, Section 00641 Aggregate Subbase, Base and Shoulders:

Aggregate Production, replace "02640" with "02630"

Aggregate Production, replace "A subplot equals 2,000 ton" with "A subplot equals 1,000 ton".

Deflection testing, Aggregate Base, replace "1 per subplot" with "a minimum of one per day on each project", or as directed by the Engineer".

Nuclear gauge, Base Aggregate, replace "5 tests per subplot" with "5 tests per subplot or a minimum of 5 tests for each day base aggregate is placed on a project", or as directed by the Engineer.

Add the following subsection:

**00641.18(a) Shoulder Aggregate** - Compact shoulder aggregate until firm and unyielding. When the shoulder is 3 feet or wider, perform deflection testing on the top lift. The Engineer may waive deflection testing.

**00641.20 Mixing Plant** - Replace this subsection with the following:

**00641.20 Mixing Aggregates** - Furnish aggregate and water that are combined to provide a uniform homogeneous mixture, with moisture content according to 00641.12, and can be compacted to the specified density.

**00641.20(a). Road mix** - Delete this subsection.

**00641.22 Spreading Equipment** - Add the following to the end of the subsection:

Provide equipment that can:

- Receive aggregate directly from the hauling vehicle.
- Convey the aggregate directly to the shoulder area.
- Place shoulder aggregate to the width, depth and slope specified.

### **SECTION 00730 - EMULSIFIED ASPHALT TACK COAT**

Comply with Section 00730 of the Standard Specifications modified as follows:

**00730.11 Emulsified Asphalt** - In the paragraph that begins "Obtain samples according to AASHTO T 40..." replace the words "AASHTO T 40" with the words "AASHTO R 66".

**00730.11 Emulsified Asphalt** - Replace the first two paragraphs with the following:

Furnish High-Performance (HPTC) tack coat meeting the following specifications:

<b>Tests on Emulsion</b>	<b>Test Method</b>	<b>Specification Min Max</b>	
Viscosity @ 25°C, SFS	AASHTO T-59	20	100
Storage Stability <sup>1</sup> , %( 1day)	AASHTO T-59	--	1.0
Sieve Test	AASHTO T-59	--	0.3
Distillation to 260°C			
Oil distillate, % (by volume of emulsion)	AASHTO T-59	--	1.0
Residue % (by weight)	AASHTO T-59	50	--
Diluted Residue % (by weight)	AASHTO T-59	33	
Tests on Residue			
Penetration @25°C, dmm	AASHTO-T-49		70
Softening Point, °C	AASHTO T-53	55	--

<sup>1</sup> This test requirement may be waived if successful application of material in the field has been achieved.

Furnish documentation that the supplier has provided training and consultation of proper application of the HPTC provided for the project. The Agency will accept an email or letter as documentation.

The materials may be conditionally accepted at the source or point of loading for transport to the project.

Furnish a bill of lading from the supplier.

Delete the last paragraph.

**00730.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for Emulsified Asphalt tack coat.

### **SECTION 00738 - SAFETY EDGE**

Comply with Section 00738 of the Standard Specifications modified as follows:

**00738.90 Payment** - Replace this subsection, except for the subsection number and title, with the following:

When included in the Schedule of Items, the accepted quantities of safety edge will be paid on the lump sum basis.

Payment for ACP will be according to 00744.90.

### **SECTION 00744 - ASPHALT CONCRETE PAVEMENT**

Comply with Section 00744 of the Standard Specifications modified as follows:

**00744.10 Aggregate** – In the first sentence delete RAS.

**00744.11(a) Asphalt Cement** – At the end of the first paragraph add the following sentence:

Provide 64-22 grade asphalt cement for this Project.

**00744.10(c) Recycled Asphalt Shingles (RAS)** – Delete this subsection and all references to RAS in 00744.

**00744.43(b) Depositing** – after the first sentence add the following paragraph:

When specified in the Project Summary List, convey ACP to the paving machine using one of the following:

- Windrow pick-up machine.
- End-dump transfer machine.

**00744.44(b) Drop-Offs** - Replace the bullet that begins “Provide warning signs and markings...” with the following bullet:

- Provide warning signs and markings according to Sections 00221, 00222, 00224 and 00225 where abrupt or sloped edge drop-offs greater than 1 inch in height occur.

Replace the third bullet with the following:

Construct and maintain a wedge of ACP at a slope of 1V:25H or flatter along the exposed edge of the Transverse joint.

Add the following subsection:

**00744.46 Driveways** - When paving operations create an abrupt edge at driveways, Schedule work as follows:

**(a) Temporary Driveway Access** - Provide driveway access by the end of the work shift as follows:

- Paved Driveways - Construct a temporary asphalt wedge.
- Aggregate Driveways - Construct a temporary aggregate wedge.



- (b) Asphalt Driveways Included the Schedule of Items** - Pave to the length as specified in the plans and Special Provisions, construct with a cross slope of less than 10%. Pave driveways within the time specified in 00180.85(b). Payment will be according to 00749.91.
- (c) Asphalt Driveways Not included in the Schedule of Items** - Pave back on driveways to the length specified in the plans and Special Provisions, construct with a cross slope of less than 10%. ACP will be paid according to 00744.90, no separate or additional payment will be made for labor, equipment or incidentals necessary to complete the work.
- (d) Aggregate Driveways** - Pave aggregate driveways to the length specified in the plans and Special Provisions, match the travel lane cross slope. Complete paving within the time specified in 00185.85(b) Aggregate will be paid according to 00641.90, no additional payment will be made for labor, equipment or incidentals necessary to complete the work.

**00744.49 Compaction** – Replace the third paragraph with the following:

Use ODOT TM 301 “Establishing Roller Patterns for Thin Lifts of ACP” to establish the rolling pattern for compaction. Use the roller pattern from ODOT TM 301 or four Coverages, whichever is greater. Complete additional Coverages as directed.

**00744.51 Opening Sections to Traffic** - Schedule work so that, during the same shift, the surfaces being paved are paved full width and length through the top Base Course before opening to traffic. Traffic will be allowed on the top Base Course up to 7 Calendar Days.

Before beginning wearing Course paving operations, make repairs to the existing surface as directed. Payment for the repairs will be made according to 00195.20.

## **SECTION 00749 - MISCELLANEOUS ASPHALT CONCRETE STRUCTURES**

Comply with Section 00749 of the Standard Specification modified as follows:

**00749.02 Limited Application** - Replace this subsection, except for the subsection number and title, with the following:

No separate or additional payment will be made for placing asphalt concrete in driveway approaches, road connections, and mailbox turnouts that require no major foundation preparation work before paving, and are paved within 5 feet of the edge of the mainline paving. ACP will be paid for according to 00744.90..

## **SECTION 01070 - MAILBOX SUPPORTS**

Comply with Section 01070 of the Standard Specifications modified as follows:

Replace the subsection title with the following: “MAILBOXES AND MAILBOX SUPPORTS”

**01070.00 Scope** - Replace this subsection, except for the subsection number and title, with the following:

This work consists of the following:

- Removing, maintaining, and reinstalling existing mailboxes and existing supports.
- Raising the height of existing mailboxes, existing supports, and new paper boxes.
- Furnish new supports when existing support is damaged or too short to adjust to required height.

- Furnish new non-locking mailboxes with reflectorized numbers. Replace existing mailboxes with new mailboxes of similar in size; or
- Furnish new locking mailboxes with reflectorized numbers. Replace existing mailboxes with new mailboxes of similar in size.

Add the following subsection:

**01070.16 Mailboxes** - Furnish new mailboxes that meet the following requirements:

- Are U.S. Postmaster approved.
- Constructed of light sheet metal, aluminum or plastic.
- Powder- coat finish.
- Weigh 22.4 pounds or less.

**01070.90 Payment** - Add the following Pay Item to the Pay Item list:

- (d) Mailboxes with Reflective Numbers.....Each
- (e) Locking Mailboxes with Reflective Numbers.....Each

Item (d) and (e) includes removing mailboxes and supports, maintaining them at temporary locations, and reinstalling them in their permanent location.

Item (g) includes raising mailbox heights in same location.

**SECTION 02001 – CONCRETE**

Comply with Section 02001 of the Standard Specifications.

**SECTION 02690 - PCC AGGREGATES**

Comply with Section 02690 of the Standard Specifications.

**PROJECT SUMMARY LIST  
Marion County  
2023 RESURFACING, ECMS Number 2023-101**

**FOR ALL PROJECTS:**

**TRAFFIC CONTROL**

Lane Closure Hours – Refer to Section 00220 for details on lane closures and hours of operation.

Removable Tape – Place white removable tape according to 00225.40, 00225.41(a) and 00225.42(e)(2), or as directed by the Engineer.

Portable Changeable Message Signs - Place Portable Changeable Message Signs as directed and according to Standard Drawing TM800.

Temporary Flexible Pavement Markers and Centerline Delineation - Place Temporary Flexible Pavement Markers according to 00225.40 and 00225.42(e) or as directed by the Engineer.

For leveling or base courses place Temporary Flexible Pavement Markers or temporary non-removable tape according to 00225.42(e)(2).

Tubular and Conical Markers - Install temporary traffic delineation according to 00224.40 and 00224.46.

**GENERAL EXCAVATION**

Perform general excavation according to Section 00330 and the Typical Section Drawings.

**SUBGRADE STABILIZATION**

Construct subgrade stabilization in areas of weak subgrade identified by the Engineer and according to Section 00331 and the Typical Section Drawings. Construct asphalt concrete pavement repair in conjunction with subgrade stabilization.

**ADJUSTMENT OF EXISTING STRUCTURES**

Verify riser heights in the field prior to construction, adjust existing structures according to Section 00490.

**COLD PLANE PAVEMENT REMOVAL OF ROADWAYS**

Tapered Transverse Pavement Joint – Before opening to traffic, provide a temporary wedge of asphalt concrete at transverse pavement joints. See 00620.43 when traffic is allowed on cold planed surfaces. For taper rate see Transverse Cold Plane Pavement Removal Detail. Prior to paving, construct a smooth vertical edge along transverse joints according to

00620.40(f) and Standard Drawing RD610 Asphalt Concrete Pavement (ACP) Details, "Edge Detail".

### **AGGREGATE SHOULDERS**

Placement – Place shoulder rock along asphalt overlays according to 00641 and the Typical Section drawings.

Provide warning signs and tubular or conical markers according to 00224.46 where abrupt or sloped edge drop-offs are greater than one (1) inch in height.

### **SAFETY EDGE**

When indicated in the Schedule of Items construct a safety edge according to Section 00738 and Standard Drawing No. RD615.

### **ASPHALT CONCRETE PAVEMENT (ACP)**

Depositing ACP – On projects where indicated, furnish pick-up equipment or a transfer machine that is self-supporting, will deliver the mixture to the paving machine at a rate that provides continuous operation and prevents segregation. Do not deposit asphalt directly into paving machine for wearing courses. When ACP is windrowed, furnish pick-up equipment according to 00745.46(b).

Cooling Time – Pave no more than half of the street/road per work shift. Allow asphalt to cool to 165° F before paving adjacent lanes, or as directed by the Engineer.

Joint Sealing – Seal all finished joints with hot paving grade asphalt or emulsified asphalt, as the contractor elects, and sand.

Vertical Face – Provide a vertical face according to Subsection 00745.48(a)(2).

### **ASPHALT CONCRETE PAVEMENT REPAIR (ACPR)**

Construction – Construct ACPR according to Section 00748 and the ACPR Detail Drawing as directed by the Engineer and this Project Summary List.

### **MAILBOXES**

Mailbox Supports – Install mailbox supports according to Section 01070 and ODOT Standard Drawing Numbers "RD100 – Mailbox Support" and "RD101 – Mailbox Installation Details" at locations shown in the Mailbox Work List.

**PROJECT SUMMARY LIST**  
**Marion County**  
**2023 RESURFACING, ECMS Number 2023-101**

**Project # 1**      Lardon Rd NE      Rd #: 735-020, 030  
FROM: 45' East of Silverton Rd EP  
TO: Howell Prairie Rd  
Length: 4.000 Miles    Width - Old: 20.0'    New: 20.0'

Item #	Description	Notes	Quantity	Units
225.276	TEMPORARY REMOVABLE TAPE		100	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		2	EA
225.490	FLAGGERS		520	HR
225.510	PILOT CARS		110	HR
490.125	MINOR ADJUSTMENT OF MANHOLES		1	EA
490.300	ADJUST BOXES		10	EA
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		1910	SY
620.206	COLD PLANE PAVEMENT REMOVAL, 1 1/2" DEEP		2990	SY
641.190	AGGREGATE SHOULDERS		2700	TN
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		4300	TN
745.225	LEVEL 2, 3/8" DENSE, PG 64-22, ACP IN LEVELING		2800	TN
749.095	EXTRA FOR ASPHALT APPROACH		6	EA
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS		5	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		46	EA
1070.200	MULTIPLE MAILBOX SUPPORTS		2	EA
1070.300	MAILBOX CONCRETE COLLARS		2	EA
1070.600	MAILBOX WITH NUMBERS		1	EA
1070.650	MAILBOX, LOCKING, WITH NUMBERS		1	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		2000	EA

**EXISTING STRUCTURE ADJUSTMENTS**

Minor Adjustment of Boxes

Station	Offset	Type	Notes
52+12	Rt 1'	Monument	
76+46	Lt 1'	Monument	
78+30	Lt 1'	Monument	
88+24	CL	Monument	
91+61	Lt 6'	Monument	
104+53	Rt 2'	Monument	
117+61	Lt 6'	Monument	
130+68	CL	Monument	

157+58	Rt 8'	Monument	
167+52	Rt 1'	Monument	

#### Minor Adjustment of Manholes

Station	Offset	Type	Notes
9+39	Lt 30'	Iron	In 53 <sup>rd</sup> Ave Rd Connection

#### COLD PLANE PAVEMENT REMOVAL OF ROADWAYS

Station	Length	Width	Depth	SY	Notes
0+00	50'	22'	1.5" – 0"	122.2	Begin Project Butt Joint
9+45	10'	65'	0" – 1.5"	72.2	53 <sup>rd</sup> Ave Rd Connection
21+47	10'	50'	0" – 1.5"	55.6	55 <sup>th</sup> Ave Rd Connection
77+25	50'	Varies	0" – 1.5"	144.0	64 <sup>th</sup> PI Rd Connection
86+51	110'	21'	0" – 1.5"	256.7	Transition To Inlay
87+61	633'	22'	1.5"	1547.3	Inlay Guardrail Section
93+94	110'	21'	1.5" – 0"	256.7	Transition To Overlay
110+10	110'	21'	0" – 1.5"	256.7	Transition To Inlay
111+20	589'	22'	1.5"	1439.8	Inlay Guardrail Section
117+09	110'	21'	1.5" – 0"	256.7	Transition To Overlay
168+00	50'	22'	1.5" – 0"	122.2	81 <sup>st</sup> Ave Rd Connection
174+00	50'	Varies	1.5" – 0"	218.0	82 <sup>nd</sup> Ave Rd Connection
210+70	50'	Varies	0" – 1.5"	147.0	End Project Butt Joint

#### ASPHALT CONCRETE PAVEMENT

Depositing ACP – Furnish pick-up equipment or a transfer machine.

#### Mainline

Course	Station	Length	Width	Depth	Ton
Leveling	1+00	8561'	20'	1.0"	1079
Leveling	94+94	1526'	20'	1.0"	192
Leveling	118+09	9211'	20'	1.0"	1161
Overlay	0+00	8761'	20'	1.5"	1656
Inlay	87+61	633'	22'	1.5"	132
Overlay	93+94	1726'	20'	1.5"	327
Inlay	111+20	589'	22'	1.5"	123
Overlay	117+09	9411'	20'	1.5"	1779

#### Road Connections and Approaches

Description	Type	Station	Length	Width	Depth	Tons
53 <sup>rd</sup> Ave	Rd Connection	9+45	24'	65'	1.5"	15
DW #5351	Approach	13+25	30'	10'	1.5"	3

DW #5451	Approach	19+03	25'	10'	1.5"	3
55 <sup>th</sup> Ave	Rd Connection	21+47	25'	50'	1.5"	12
DW #5796	Approach	42+45	30'	10'	1.5"	3
64 <sup>th</sup> Pl	Rd Connection	77+25	50'	Varies	1.5"	13
DW #6712	Approach	88+66	125'	10'	1.5"	12
DW Field Access	Approach	114+10	15'	10'	1.5"	2
DW #7575	Approach	133+10	15'	10'	1.5"	2
81 <sup>st</sup> Ave	Rd Connection	168+00	125'	Varies	1.5"	45
82 <sup>nd</sup> Ave	Rd Connection	174+00	50'	Varies	1.5"	19

**Project # 2**      State St SE    Rd #: 22-060, 070  
FROM: 195' West of Howell Prairie CL  
TO: Cascade Hwy EP  
Length: 4.694 Miles    Width - Old: 22.0'    New: 22.0'

Item #	Description	Notes	Quantity	Units
225.276	TEMPORARY REMOVABLE TAPE		180	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		4	EA
225.490	FLAGGERS		640	HR
225.510	PILOT CARS		130	HR
490.300	ADJUST BOXES		19	EA
620.101	COLD PLANE PAVEMENT REMOVAL		172	SY
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		1472	SY
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS		960	SY
641.190	AGGREGATE SHOULDERS		3500	TN
738.200	SAFETY EDGE		1	LS
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		7700	TN
745.262	LEVEL 2, 1/2" DENSE, PG 64-22, ACP IN BASE PLUG		175	TN
749.095	EXTRA FOR ASPHALT APPROACH		14	EA
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS		7	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		22	EA
1070.600	MAILBOX WITH NUMBERS		1	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		2479	EA

### EXISTING STRUCTURE ADJUSTMENTS

#### Minor Adjustment of Boxes

Station	Offset	Type	Notes
11+46	Rt. 3'	Monument	

19+99	Lt. 1'	Monument	
44+01	Rt. 1'	Monument	
44+79	CL	Monument	
50+03	CL	Monument	
62+54	Rt. 5'	Monument	
66+59	Rt. 2'	Monument	
77+62	Rt. 1'	Monument	
90+19	Lt. 2'	Monument	
97+62	Rt. 6'	Monument	
116+03	Rt. 2'	Monument	
159+51	Lt. 6'	Monument	
190+40	Rt. 4'	Monument	
193+21	CL	Monument	
199+36	Rt. 2'	Monument	
203+36	Rt. 4'	Monument	
205+82	Rt. 3'	Monument	
210+39	Rt. 1'	Monument	
245+36	Lt. 4'	Monument	

### COLD PLANE PAVEMENT REMOVAL OF ROADWAYS

Station	Length	Width	Depth	SY	Notes
0+00	50.0'	22.0'	2.0" – 0"	122.2	Begin Project Butt Joint
1+92	50.0'	22.0'	0" – 2"	122.2	Howell Prairie S Road Connection
1+82	50.0'	22.0'	0" – 2"	122.2	Howell Prairie N Road Connection
20+77	50.0'	Varies	0" – 2"	137.0	Sanrodee Dr Road Connection
192+69	110.0	22.0'	0" – 2"	268.9	Transition To Inlay
193+79	70.0'	22.0'	0" – 2"	171.1	Inlay At Guardrail
194+49	110.0'	22.0'	0" – 2"	268.9	Transition To Overlay
201+16	50.0'	Varies	0" – 2"	129.0	119 <sup>th</sup> Av. S Road Connection
247+36	50.0'	Varies	0" – 2"	300.0	End Project Butt Joint

#### Cold Plane Pavement Removal, Repair Areas

Locations – Will be marked in the field as follows:

Course	Station	Area (SY)	Depth	ACP Depth	ACP Tons	Notes
Plug	0+50	950.7	3"	3"	175	Repair area in Howell Prairie Intersection. See Sheet R-1



## ASPHALT CONCRETE PAVEMENT

Depositing ACP – Furnish pick-up equipment or a transfer machine.

### Mainline

Course	Station	Length	Width	Depth	Ton
Overlay	0+00	19379'	22'	2.0"	5372
Inlay (Box Culvert)	193+79	70'	22'	2.0"	20
Overlay	194+49	5337'	22'	2.0"	1480

### Road Connections and Approaches

Description	Type	Station	Length	Width	Depth	Tons
Howell Prairie South	Road Connection	1+92	180'	Varies	2"	55
Howell Prairie North	Road Connection	1+92	100'	Varies	2"	49
DW #8710	Approach	7+45	25'	10'	2"	4
Sandrodee Dr.	Road Connection	20+77	50'	Varies	2"	16
DW #9012	Approach	27+50	25'	10'	2"	4
Widen to Culvert Curb	Approach	29+70	25'	6'	2"	2
Widen to Culvert Curb	Approach	29+70	25'	5'	2"	2
Alaska St	Road Connection	30+70	145'	Varies	2"	41
95 <sup>th</sup> Ave	Road Connection	53+61	125'	Varies	2"	39
DW #9665	Approach	70+55	25'	7'	2"	3
DW #9906	Approach	83+67	30'	12'	2"	5
DW #11285	Approach	172+19	25'	10'	2"	4
DW #11565	Approach	172+80	25'	15'	2"	5
DW #11523	Approach	185+48	35'	15'	2"	7
DW #11665	Approach	187+75	25'	15'	2"	5
DW #11685 West	Approach	188+82	20'	10'	2"	3
DW #11685 East	Approach	189+63	15'	10'	2"	2
DW #11750	Approach	192+60	20'	10'	2"	3
DW #11850	Approach	198+76	20'	15'	2"	4
119 <sup>th</sup> Av. South	Road Connection	201+16	50'	Varies	2"	15
119 <sup>th</sup> Av. North	Road Connection	201+16	45'	Varies	2"	14

**Project # 3**62<sup>nd</sup> Ave SE Rd #: 746-010

FROM: Macleay Rd

TO: State St

Length: 1.140 Miles Width - Old: 24.0' New: 24.0'

Item #	Description	Notes	Quantity	Units
225.276	TEMPORARY REMOVABLE TAPE		40	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		2	EA
225.490	FLAGGERS		360	HR
225.510	PILOT CARS		70	HR
490.300	ADJUST BOXES		1	EA
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		227	SY
641.190	AGGREGATE SHOULDERS		1350	TN
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		1650	TN
749.095	EXTRA FOR ASPHALT APPROACH		4	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		12	EA
1070.200	MULTIPLE MAILBOX SUPPORTS		5	EA
1070.300	MAILBOX CONCRETE COLLARS		5	EA
1070.600	MAILBOX WITH NUMBERS		1	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		602	EA

**EXISTING STRUCTURE ADJUSTMENTS**Minor Adjustment of Boxes

Station	Offset	Type	Notes
59+71	Lt 2'	Monument	

**COLD PLANE PAVEMENT REMOVAL OF ROADWAYS**

Station	Length	Width	Depth	SY	Notes
59+60	50'	Varies	1.5" – 0"	226.3	End Project Butt Joint

**ASPHALT CONCRETE PAVEMENT**Depositing ACP – Furnish pick-up equipment or a transfer machine.Mainline

Course	Station	Length	Width	Depth	Ton
Wearing	0+00	6019'	24'	1.5"	1366

Road Connections and Approaches

Description	Type	Station	Length	Width	Depth	Ton
DW #671	Approach	41+41	20'	10'	1.5"	2
DW #611 (Field Entrance)	Approach	43+51	20'	10'	1.5"	2
DW #631	Approach	44+51	25'	10'	1.5"	3
DW #6140 State St	Approach	57+74	20'	10'	1.5"	2

**Project # 4**            Macleay Rd SE            Rd #: 23-040, 050  
FROM: 65' East of Cordon Rd  
TO: Howell Prairie Rd  
Length: 3.930 Miles    Width - Old: 23.0'    New: 23.0'

Item #	Description	Notes	Quantity	Units
1.804	RAILROAD INSURANCE		0	AA
1.805	RAILROAD FLAGGERS		0	AA
225.276	TEMPORARY REMOVABLE TAPE		340	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		6	EA
225.490	FLAGGERS		710	HR
225.510	PILOT CARS		100	HR
490.300	ADJUST BOXES		4	EA
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		2571	SY
620.115	COLD PLANE PAVEMENT REMOVAL, CURB LINE		128	SY
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS		791	SY
641.190	AGGREGATE SHOULDERS		2900	TN
738.200	SAFETY EDGE		1	LS
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		6900	TN
745.262	LEVEL 2, 1/2" DENSE, PG 64-22, ACP IN BASE PLUG		150	TN
749.095	EXTRA FOR ASPHALT APPROACH		9	EA
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS		13	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		56	EA
1070.200	MULTIPLE MAILBOX SUPPORTS		6	EA
1070.300	MAILBOX CONCRETE COLLARS		6	EA
1070.600	MAILBOX WITH NUMBERS		1	EA
1070.650	MAILBOX, LOCKING, WITH NUMBERS		2	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		2075	EA
9999.510	TEMPORARY DETOUR ROUTE		1	LS

**EXISTING STRUCTURE ADJUSTMENTS**Minor Adjustment of Boxes

Station	Offset	Type	Notes
8+35	Rt 1'	Monument	
54+72	Rt 1'	Monument	
131+50	Lt 13'	Monument	
153+27	Rt 1'	Monument	

**COLD PLANE PAVEMENT REMOVAL OF ROADWAYS**

Station	Length	Width	Depth	SY	Notes
0+00	110.0'	28.0'	2" – 0"	342.2	Begin Project Butt Joint
33+11	50.0'	Varies	0" – 2"	156.9	59 <sup>th</sup> Av. Road Connection
54+75	70.0'	Varies	0" – 2"	353.9	62 <sup>nd</sup> Av. Road Connection
63+90	30.0'	Varies	0" – 2"	91.7	Sonya Dr. Road Connection
76+41	30.0'	Varies	0" – 2"	86.7	Rippling Brook Road Connection
96+62	50.0'	21.0'	0" – 2"	116.7	Dunsmere West Road Connection
125+39	50.0'	26.0'	0" – 2"	144.4	Dunsmere East Road Connection
136+96	50.0'	Varies	0" – 2"	164.1	Kingbird Ct Road Connection
153+89	50.0'	Varies	0" – 2"	144.3	78 <sup>th</sup> Av. South Road Connection
153+89	50.0'	Varies	0" – 2"	152.4	78 <sup>th</sup> Av. North Road Connection
172+11	50.0'	21.0'	0" – 2"	70.0	82 <sup>nd</sup> Av. North Road Connection
172+11	50.0'	20.0'	0" – 2"	66.7	82 <sup>nd</sup> Av. South Road Connection
174+92	110.0'	26.0'	0" – 2"	317.8	Butt Joint at RxR Crossing
176+10	110.0'	26.0'	2" – 0"	317.8	Butt Joint at RxR Crossing
182+48	30.0'	21.0'	0" – 2"	70.0	84 <sup>th</sup> Av. Road Connection
187+94	30.0'	22.0'	0" – 2"	73.3	84 <sup>th</sup> Pl. Road Connection
190+14	164'	7.0'	0" – 2"	127.6	Curb Grind #8541 Driveway
207+00	50.0'	Varies	2" – 0"	244.4	End Project Butt Joint

**ASPHALT CONCRETE PAVEMENT**

Depositing ACP – Furnish pick-up equipment or a transfer machine.

Mainline

Course	Station	Length	Width	Depth	Ton
Wearing	0+00	20,750'	23'	2.0"	6014

Road Connections and Approaches

Description	Type	Station	Length	Width	Depth	Tons
DW #5765	Approach	25+73	12'	10'	2.0"	2
DW #5750	Approach	25+91	20'	10'	2.0"	3
DW #5770	Approach	27+15	20'	10'	2.0"	3

59 <sup>th</sup> Av.	Road Connection	33+11	50'	Varies	2.0"	18
DW #5920	Approach	33+75	20'	10'	2.0"	3
DW #5960	Approach	36+45	20'	10'	2.0"	3
DW #6060	Approach	39+81	20'	10'	2.0"	3
62 <sup>nd</sup> Av.	Road Connection	54+75	70'	Varies	2.0"	43
DW #6221	Approach	56+83	35'	10'	2.0"	5
Sonya Dr.	Road Connection	63+90	50'	Varies	2.0"	16
Rippling Brook Dr.	Road Connection	76+41	50'	Varies	2.0"	8
DW #6831	Approach	89+72	25'	10'	2.0"	4
Dunsmere St. (West)	Road Connection	96+62	100'	Varies	2.0"	33
Dunsmere St. (East)	Road Connection	125+39	100'	Varies	2.0"	43
Kingbird Ct.	Road Connection	136+96	50'	Varies	2.0"	19
77 <sup>th</sup> Av.	Approach	145+30	25'	10'	2.0"	4
78 <sup>th</sup> Av. (South)	Road Connection	153+89	50'	Varies	2.0"	17
78 <sup>th</sup> Av. (North)	Road Connection	153+89	60'	Varies	2.0"	18
82 <sup>nd</sup> Av. (North)	Road Connection	172+11	50'	Varies	2.0"	16
82 <sup>nd</sup> Av. (South)	Road Connection	172+11	60'	Varies	2.0"	18
84 <sup>th</sup> Av.	Road Connection	182+48	50'	Varies	2.0"	16
84 <sup>th</sup> Pl.	Road Connection	187+94	50'	Varies	2.0"	16

### Cold Plane Pavement Removal, Repair Areas

Locations – Will be marked in the field as follows:

<b>Course</b>	<b>Station</b>	<b>Left / Right</b>	<b>Length</b>	<b>Width</b>	<b>SY</b>	<b>Depth</b>	<b>ACP Depth</b>	<b>ACP Tons</b>
Plug	1+84	Right	303'	7'	235.7	3"	3"	41
Plug	33+43	Right	336'	7'	261.3	3"	3"	45
Plug	94+72	Left	167'	7'	129.9	3"	3"	21
Plug	107+85	Left	210'	7'	163.3	3"	3"	28

**Project # 5**

Culver Dr SE Rd #: 849-010

FROM: Macleay Rd EP

TO: Deer Park Dr. EP

Length: 1.025 Miles Width - Old: 22' New: 24'

Item #	Description	Notes	Quantity	Units
225.276	TEMPORARY REMOVABLE TAPE		60	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		2	EA
225.490	FLAGGERS		510	HR
225.510	PILOT CARS		120	HR
330.202	GENERAL EXCAVATION TO A NOMINAL DEPTH OF 3"		10820	FT
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		411	SY
641.190	AGGREGATE SHOULDERS		1390	TN
738.200	SAFETY EDGE		1	LS
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		3600	TN
745.262	LEVEL 2, 1/2" DENSE, PG 64-22, ACP IN BASE PLUG		330	TN
749.095	EXTRA FOR ASPHALT APPROACH		31	EA
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS		1	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		27	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		1082	EA

**GENERAL EXCAVATION**

Perform general excavation according to Section 00330 and the Typical Section for this Project. Excavate to a Nominal Depth of 3"

Station	Left/Right	Length	Width	Depth
0+00 – 54+10	Left	5,410'	1.5'	3"
0+00 – 54+10	Right	5,410'	1.5'	3"

Widen Culver Drive to a width of 24' as follows:

- Excavate 1.5' wide from edge of pavement to a nominal depth of 3".
- Taper new pavement edge to match existing pavement section as marked in the field.
- Fill excavated area with ACP plug. Provide finished travel lane width of 12'.

**COLD PLANE PAVEMENT REMOVAL OF ROADWAYS**

Station	Length	Width	Depth	SY	Notes
0+00	50'	Varies	2.0" – 0"	300.0	Begin Project Butt Joint
27+89	35'	Varies	0" – 2.0"	107.4	Gaia St Road Connection
25+60	50'	Varies	0" – 2.0"	155.0	End Project Butt Joint

### ASPHALT CONCRETE PAVEMENT

Depositing ACP – Furnish pick-up equipment or a transfer machine.

#### Mainline

Course	Station	Length	Width	Depth	Ton
Overlay (Base Lift)	2+00	5010'	24'	2.0"	1516
Overlay (Wearing)	0+00	5410'	24'	2.0"	1636

#### Road Connection and Approaches

Description	Type	Station	Length	Width	Depth	Tons
DW #5461	Approach	3+00	20'	10'	4"	5
DW #5470	Approach	3+85	20'	10'	4"	5
DW #5490	Approach	5+05	20'	10'	4"	5
DW #5535	Approach	8+00	20'	10'	4"	5
DW #5510	Approach	10+40	20'	10'	4"	5
DW #5575	Approach	10+55	20'	10'	4"	5
DW #5615	Approach	16+95	20'	10'	4"	5
DW Substation	Approach	19+60	20'	10'	4"	5
DW #5685	Approach	21+75	20'	10'	4"	5
DW Substation	Approach	21+97	20'	10'	4"	5
DW #5695	Approach	22+12	20'	10'	4"	5
DW #5705	Approach	23+06	20'	10'	4"	5
DW #5745	Approach	24+25	20'	10'	4"	5
DW #5825	Approach	25+54	20'	10'	4"	5
Gaia St.	Road Connection	27+89	20'	Varies	4"	25
DW #5835	Approach	30+55	20'	10'	4"	5
DW #5925	Approach	36+13	20'	10'	4"	5
DW #5935	Approach	39+70	20'	10'	4"	5
DW Blueberry Farm	Approach	41+10	20'	10'	4"	5
DW #5958	Approach	42+64	20'	10'	4"	5
DW #5960	Approach	43+93	20'	10'	4"	5
DW #5975	Approach	44+37	20'	10'	4"	5

DW #5989	Approach	44+60	20'	10'	4"	5
DW #5999	Approach	45+56	20'	10'	4"	5
DW #6009	Approach	45+99	20'	10'	4"	5
DW #6019	Approach	47+40	20'	10'	4"	5
DW #xxxx	Approach	48+25	20'	10'	4"	5
DW #6029	Approach	48+70	20'	10'	4"	5
DW #6040	Approach	49+29	20'	10'	4"	5
DW #6090	Approach	50+12	20'	10'	4"	5
DW #6050	Approach	50+23	20'	10'	4"	5
DW #6090	Approach	52+28	20'	10'	4"	5

**Project # 6**      74<sup>TH</sup> Ave SE / 75<sup>th</sup> Av SE      Rd #: 850-010, 020  
 FROM: Jordan St. EP  
 TO: Macleay Rd EP  
 Length: 1.438 Miles    Width - Old: 22.0'    New: 22.0'

Item #	Description	Notes	Quantity	Units
225.276	TEMPORARY REMOVABLE TAPE		120	FT
225.450	PORTABLE CHANGEABLE MESSAGE SIGNS		2	EA
225.490	FLAGGERS		322	HR
225.510	PILOT CARS		70	HR
490.300	ADJUST BOXES		4	EA
620.110	COLD PLANE PAVEMENT REMOVAL, BUTT JOINTS		945	SY
620.305	COLD PLANE PAVEMENT REMOVAL, REPAIR AREAS		910	SY
641.190	AGGREGATE SHOULDERS		850	TN
738.200	SAFETY EDGE		1	LS
745.205	LEVEL 2, 3/8" DENSE, PG 64-22, ACP		2500	TN
745.262	LEVEL 2, 1/2" DENSE, PG 64-22, ACP IN BASE PLUG		175	TN
749.095	EXTRA FOR ASPHALT APPROACH		4	EA
749.150	EXTRA FOR ASPHALT ROAD CONNECTIONS		4	EA
861.050	STRIPING LAYOUT		1	LS
1070.100	SINGLE MAILBOX SUPPORTS		17	EA
1070.200	MULTIPLE MAILBOX SUPPORTS		3	EA
1070.300	MAILBOX CONCRETE COLLARS		3	EA
9999.412	TEMPORARY CENTERLINE DELINEATION		760	EA

### EXISTING STRUCTURE ADJUSTMENTS

Minor Adjustment of Boxes



Station	Offset	Type	Notes
23+05	Rt. 2'	Monument	
27+80	Rt. 1'	Monument	
31+94	Lt. 2'	Monument	
43+46	CL	Monument	

### **COLD PLANE PAVEMENT REMOVAL OF ROADWAYS**

Station	Length	Width	Depth	SY	Notes
0+00	50'	Varies	2" – 0"	229.6	Begin Project Butt Joint
8+30	50'	Varies	0" – 0"	156.9	Terry Ct. Road Connection
26+27	50'	Varies	0" – 2"	197.7	Harpole St. Road Connection
37+89	50'	Varies	0" – 2"	177.8	Pudding River Dr. Road Connection
43+46	50'	Varies	0" – 2"	181.7	Gale St. Road Connection

#### Cold Plane Pavement Removal, Repair Areas

Locations – Will be marked in the field as follows:

Course	Station	Left / Right	Length	Width	SY	Depth	ACP Depth	ACP Tons	Notes
Plug	0+08	Both	55'	22'	134.4	3"	3"	23	Jordan/75 <sup>th</sup> Intersection
Plug	0+08	Left	55'	Varies	44.8	3"	3"	8	Jordan/75 <sup>th</sup> Intersection
Plug	25+85	Right	26'	12'	34.7	3"	3"	6	Harpole/75 <sup>th</sup> Intersection
Plug	25+98	Right	65'	10'	72.2	3"	3"	13	Harpole/75 <sup>th</sup> Intersection
Plug	26+11	Both	126'	23'	322.0	3"	3"	55	Harpole/75 <sup>th</sup> Intersection
Plug	43+21	Left	29'	12'	38.7	3"	3"	7	Gale/74 <sup>th</sup> Intersection
Plug	43+29	Left	44'	25'	122.2	3"	3"	21	Gale/74 <sup>th</sup> Intersection
Plug	43+76	Both	55'	23'	140.6	3"	3"	24	Gale/74 <sup>th</sup> Intersection

### **ASPHALT CONCRETE PAVEMENT**

Depositing ACP – Furnish pick-up equipment or a transfer machine.

#### Mainline

Course	Station	Length	Width	Depth	Ton
Overlay	0+00	7590'	22'	2"	2103

Road Connections and Approaches

Description	Type	Station	Length	Width	Depth	Tons
DW #4450	Approach	2+95	25'	10'	2"	4
Terry Court	Road Connection	8+30	50'	Varies	2"	18
DW #4267	Approach	10+86	25'	Varies	2"	4
Harpole St.	Road Connection	26+27	50'	Varies	2"	23
Pudding Creek Dr	Road Connection	37+89	50'	Varies	2"	21
Gale St.	Road Connection	46+46	50'	Varies	2"	21
DW #2328	Approach	66+77	25'	10'	2"	4
DW #2288	Approach	71+61	25'	10'	2"	4

**Project # 7 REFLECTIVE PAVEMENT MARKERS**  
Various Roads

Item #	Description	Notes	Quantity	Units
225.510	PILOT CARS		80	HR
860.200	BI-DIRECTIONAL YELLOW TYPE I		2150	EA

Raised Reflective Marker Locations and Quantities:

Road Name	Begin	End	Length	Yellow
Lardon Rd	Silverton Rd	Howell Prairie Rd	21120'	529
State St	195' West of Howell Prairie Rd	Cascade Hwy	24786'	621
62 <sup>nd</sup> Av	Macleay Rd	State St	6019'	152
Macleay Rd	80' East of Cordon Rd	Howell Prairie Rd	20750'	520
Culver Dr	Macleay Rd	Deer Park Rd	5410'	137
75 <sup>th</sup> Av	Jordan St	Macleay Rd	7590'	191

## MAILBOX WORK LIST

### 2023 Marion County Resurfacing ECMS 2023-101

**\*\*All Mailbox Work Is Subject To Change\*\***

Address	Tasks	Notes
<b>#1 Lardon Rd NE</b>		
5160	New Single Support	1 Paper Box
5171	New Single Support	1 paper Box
5180	No Change	1 Paper Box, Missing Mailbox
5211	No Change	1 Paper Box
5220	New Single Support	1 Paper Box
5231	New Single Support	1 Paper Box
5291	No Change	
5260	No Change	Locking Box
5331	No Change	1 Paper Box
Xxxx, 5341, 5351	New Multiple Support	2 Paper Boxes, All Locking Boxes
5340	New Single Support	
5361	New Single Support	
5350	New Single Support	1 Paper Box
5391	New Single Support	1 Paper Box
5341	New Single Support	1 Locking Box
5390	New Single Support	1 Paper Box
5431	New Single Support	1 Paper Box
5451	No Change	1 Paper Box
5491	No Change	1 Paper Box
5511	New Single Support	1 Paper Box
5531	No Change	
5603	No Change	
5604	No Change	
5602	No Change	
5650	New Single Support	
5790	No Change	
5796	New Single Support	1 Paper Box
6040	New Single Support	Oversize Box, 1 Paper Box
6280	New Single Support, New Locking Mailbox	Mailbox Welded to Post
6288, 6292, 6292, 6294	New Multiple Support	6290 Locking, 6288 Paper Box
6393	New Single Support	
6443	New Single Support	

6445	New Single Support	
6430	New Single Support	
6490	No Change	
6495	New Single Support	1 Paper Box
6292	New Single Support	1 Paper Box
6494	New Single Support	Locking Box, 1 Paper Box
6496	New Single Support	Locking Box, 1 Paper Box
6515	New Single Support	
6520	New Single Support	Locking Box
6575	New Single Support	1 Paper Box
6655	New Single Support	
6695	New Single Support	Oversize Box
6712	New Single Support	Oversize Box, 1 Paper Box
6840	New Single Support	
6825	New Single Support	
7010	New Single Support, New Mailbox	Custom Box With Post, 1 Paper Box
7030	New Single Support	
7020	New Single Support	Oversize Box, 1 Paper Box
7025	New Single Support	
7295	New Single Support	
7298, 7299, 7305	No Change	Community Box
7565	New Single Support	
7575	New Single Support	
7577	No Change	
7685	No Change	
7705	New Single Support	1 Paper Box
7715	New Single Support	1 Paper Box
7925	No Change	
7955	No Change	
8004	No Change	1 Paper Box
8005, 8014, 8015, 8018	No Change	8018 1 Paper Box, All Oversize Boxes
8035	New Single Support	
8055	New Single Support	
8044	No Change	Locking Box, 1 Paper Box
8084	New Single Support	1 Paper Box
8315	New Single Support	
8325	New Single Support	Locking Box, 1 Paper Box

<b>#2 State St SE</b>		
8515	New Single Support	Oversize Box, 1 Paper Box
8540	New Single Support	Locking Box
200	New Single Support	Oversize Box
8710	New Single Support	Locking Box
8770	No Change	
8790	No Change	Locking Box
8785	New Single Support	Locking Box
8820	New Single Support	Locking Box
8840	New Single Support	Locking Box
8905	No Change	Oversize Box
8915	No Change	Oversize Box
9006	No Change	Locking Box
9012	New Single Support	Locking Box
9120 (Alaska)	No Change	Locking Box, 1 Paper Box
9125 (Alaska)	No Change	
9200	No Change	Oversize Box
9300	New Single Support	
9305	New Single Support	
9325	New Single Support	Oversize Box
9400	No Change	
9410	No Change	
9490	New Single Support	Locking Box, 1 Paper Box
9610	No Change	Oversize Box
9905	New Single Support	
10225	No Change	Locking Box
10440	No Change	
10695	No Change	1 Paper Box
10730	No Change	1 Paper Box
10830	New Single Support	
11005	New Single Support	Locking Box, 2 Paper Boxes
11122	No Change	
11285	New Single Support	1 Paper Box
11485	No Change	
11515	No Change	Oversize Box
11565	No Change	Locking Box
11523	New Single Support	1 Paper Box
11525	New Single Support	
11665	New Single Support	
11685	New Single Support, New Mailbox	
11750	New Single Support	
11805	New Single Support	Locking Box, 1 Paper Box
11825	No Change	Oversize Box
12195	No Change	
12320	No Change	

<b>#3 62<sup>nd</sup> Ave SE</b>		
1506	New Single Support	
1452	New Single Support	Locking Box
1392	No Change	Locking Box
1261, 1291, 1292	New Multiple Support	All Locking Boxes, 2 Paper Boxes
1152	New Single Support	Oversize Box
1072, 1042, 952	No Change	All Oversize, 1 Paper Box
862	New Single Support	
842	New Single Support	1 Paper Box
700	No Change	Oversize Box, 1 Paper Box
672	New Single Support, New Mailbox	Plastic Box and Post Integrated Together
671	New Single Support	Locking Box
662	New Single Support	Oversize Box, 1 Paper Box
572	No Change	1 Paper Box
570	No Change	
585, 611, xxx	New Multiple Support	611, Locking Box, 2 Paper Boxes
562, 6135, 6161	New Multiple Support	562 and 6161 Locking Boxes, 2 Paper Boxes
567	New Single Support	
552	New Single Support	
565, 542, 541, 532	New Multiple Support	4 Paper Boxes
431	New Single Support	1 Paper Box
421	New Single Support	1 Paper Box
422, 322, 331	New Multiple Support	422 and 322 Oversize Boxes, 2 Paper Boxes

<b>#4 Macleay Rd SE</b>		
5255	New Single Support	Locking Box, 1 Paper Box
5265	New Single Support	
5280	No Change	Locking Box
5320	New Single Support	
5367	No Change	
5360	No Change	
5480	New Single Support	Locking Box, 1 Paper Box
548, 554, 905, 560	New Multiple Support	5490 1 Paper Box
5535	New Single Support	
5565	New Single Support, New Mailbox	Tractor Box, 1 Paper Box
5615	New Single Support	Oversize Box
5620	New Single Support	
5710	New Single Support	
5695	No Change	1 Paper Box

5750	New Single Support	
5765	No Change	
5770, 5775, 5780	New Multiple Support	3 Paper Boxes
5785, 5790, 5805	New Multiple Support	2 Paper Boxes
5820, 5840, 5815	No Change	All Locking
5850	New Single Support	Oversize Box, 1 Paper Box
5935	New Single Support, New Locking Box	
5920	No Change	1 Paper Box
5940	No Change	1 Paper Box
5960	New Single Support	
5980	No Change	Oversize Box, 1 Paper Box
6060	New Single Support	
6092	No Change	1 Paper Box
6221	No Change	Locking Box, 1 Paper Box
6241	No Change	1 Paper Box
6250	New Single Support	Locking Box
6261	New Single Support	1 Paper Box
6281	No Change	
6282, 6292	No Change	Both Locking
6320	No Change	
6360	Noe Single Support	Locking
6392	New Single Support	Locking
6401	New Single Support, New Locking Box	Locking Box Welded To Post
6402	No Change	Locking Box, 1 Paper Box
6422	No Change	Locking Box
6441	No Change	Locking Box
6461	No Change	Locking Box
6612	New Single Support	1 Paper Box
6642	New Single Support	1 Paper Box
6652	No Change	1 Paper Box
6691	No Change	
6692	No Change	1 Paper Box
6700	New Single Support	1 Paper Box
6751	New Single Support	1 Paper Box
6761	New Single Support	Locking Box, 1 Paper Box
6781	New Single Support	Locking Box
6792	New Single Support	Oversize Box
6831	New Single Support	
6832	New Single Support	1 Paper Box
6852	New Single Support	Locking Box
6962	New Single Support	Oversize Box
7075	New Single Support	Oversize Box
7076	New Single Support	Oversize Box
7090	No Change	1 Paper Box

7211	New Single Support	1 Paper Box
7332	New Single Support	
7351	No Change	Locking Box
7431	New Single Support	
7442	New Single Support	
7444	New Single Support	1 Paper Box
1921	New Single Support	
1922	No Change	Locking Box
1982	New Single Support	
7541	New Single Support	1 Paper Box
1825	No Change	
1820, 1890, 1920, 7552	New Multiple Support	1890 Locking Box, 1 Paper Box
7641	New Single Support	2 Paper Boxes
7681	No Change	Paper Boxes Only
7691	No Change	Community Box
7752	No Change	Locking Box
7751	No Change	Locking Box
7791	No Change	Locking Box
7865	No Change	Locking Box
7885, 7922	No Change	Both Locking Boxes
7952	New Single Support	Locking Box, 1 Paper Box
7982	New Single Support	Locking Box
8022	New Single Support	1 Paper Box
8021	New Single Support	Locking Box
8052	New Single Support	1 Paper Box
8061	No Change	1 Paper Box
8062	No Change	Locking Box
8072	New Single Support	Locking Box
8231	New Single Support	Locking Box, 1 Paper Box
8302, 8282, 8291	No Change	All Locking Boxes
8321	New Single Support	
8331, 8342, 8362	New Multiple Support	
8341, 8372, 2257	New Multiple Support	1 Paper Box
2100	No Change	
8421	New Single Support	Locking Box
8462	No Change	Oversize Box
8501	New Single Support	
8511, 8520, 8522	No Change	2 Paper Boxes
8541	No Change	Locking Box
8581	New Single Support	1 Paper Box
8582	New Single Support	1 Paper Box
8601	New Single Support	1 Paper Box
8822	New Single Support	Oversize Box



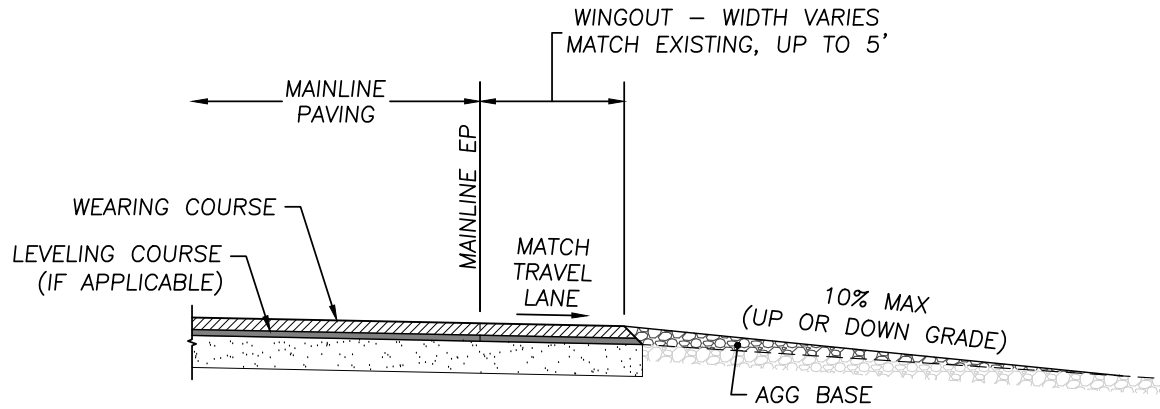
<b>#5 Culver Dr SE</b>		
5461	New Single Support	Locking Box
5470	New Single Support	Locking Box, 1 Paper Box, Remove T Post
5490	New Single Support	Remove Concrete Blocks, 1 Paper Box
5535	New Single Support	Locking Box, Remove T Post
5510	New Single Support	Locking Box, 1 Paper Box
5575	New Single Support	Remove Crankshaft, 1 Paper Box
5615	New Single Support	
5685	New Single Support	Locking Box
5695	New Single Support	Locking Box
5705	New Single Support	Oversize Box
5745	New Single Support	
5825	New Single Support	
5835	New Single Support	1 Paper Box
5925	New Single Support	
5935	New Single Support	Locking Box
5958	New Single Support	
5960	New Single Support	
5975	New Single Support	Locking Box
5989	New Single Support	Locking Box
5999	New Single Support	Locking Box, 2 Paper Boxes, Remove T Post
6009	New Single Support	Locking Box
6019	New Single Support	Locking Box
60xx	New Single Support	
6029	New Single Support	
6040	New Single Support	1 Paper Box
6050	New Single Support	
6095	New Single Support	

<b>#6 75<sup>th</sup> Ave SE, 74<sup>th</sup> Ave SE</b>		
4477	No Change	Locking Box
4437	New Single Support	
4437	New Single Support	Locking Box
4450	No Change	Locking Box, 1 Paper Box
4425, 4415, 4400, 4370	New Multiple Support	4 Paper Boxes
4350	New Single Support	1 Paper Box

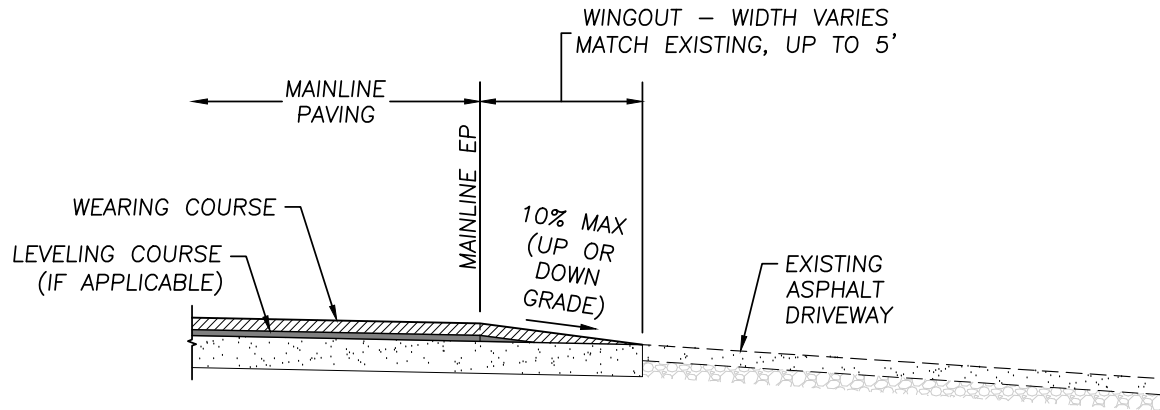
4290	No Change	1 Paper Box
4270	No Change	
4267	No Change	Locking Box
4250	New Single Support	Locking Box
4199	New Single Support	1 Paper Box
4170	No Change	Locking Box
4122	New Single Support	1 Paper Box
4119	New Single Support	1 Paper Box
4098	New Single Support	Locking Box
4090	New Single Support	Locking Box, 1 Paper Box
3932	No Change	
3892	No Change	Locking Box, 1 Paper Box
3822	New Single Support	1 Paper Box
3598	New Single Support	
7424, 7445	No Change	Locking Box
2887	No Change	Community Box
7527, 7514, 7454, 7440	New Multiple Support	7527 Locking Box and 1 Paper Box, 7514 Locking Box
7443	New Single Support	Locking Box, 1 Paper Box
2817	No Change	1 Paper Box
7522, 7512, 7452, 7452	New Multiple Support	All Locking, 7522 1 Paper Box
2537	No Change	Community Box
7537	New Single Support	Locking Box, 2 Paper Boxes
2507	New Single Support	
2348	New Single Support	1 Paper Box
2328	New Single Support	1 Paper Box
2407	No Change	
2312	New Single Support	1 Paper Box
2288	No Change	Locking Box, 2 Paper Boxes
2248	No Change	Locking Box, 1 Paper Box
2208	No Change	

<b>#8 Reflective Pavement Markers</b>
---------------------------------------

No Work
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① GRAVEL DRIVEWAY WINGOUT DETAIL  
SCALE: N.T.S.

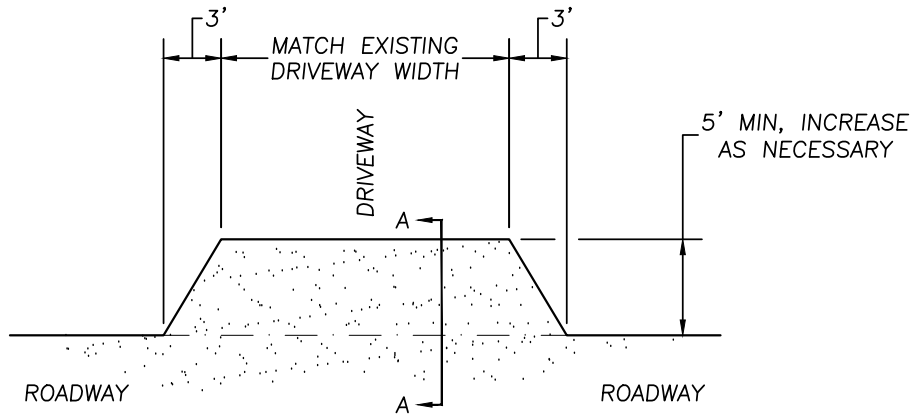


② ASPHALT DRIVEWAY WINGOUT DETAIL  
SCALE: N.T.S.

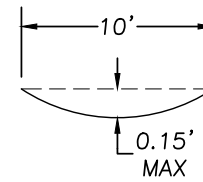
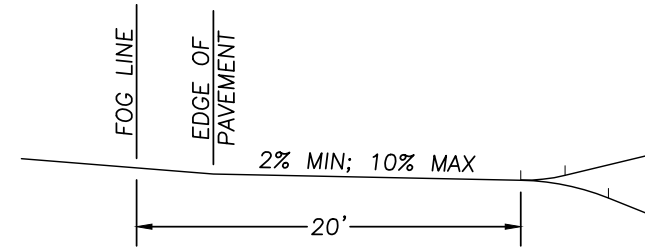
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



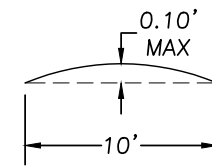
# RESURFACING DRIVEWAY WINGOUT DETAIL



① DRIVEWAY APPROACH DETAIL  
SCALE: N.T.S.

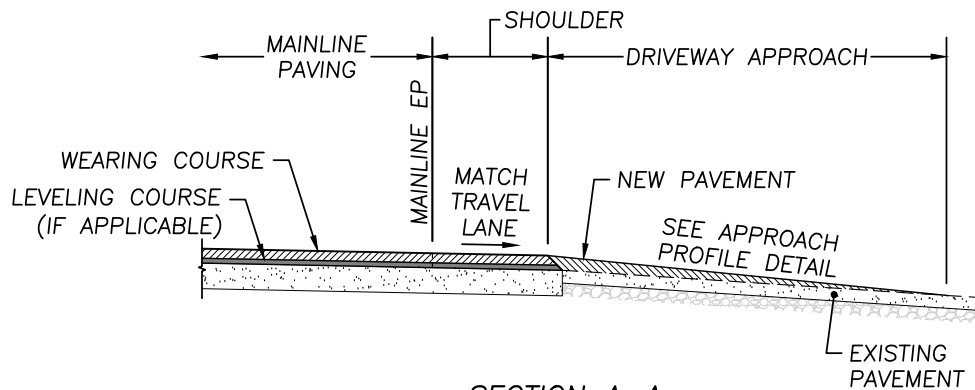


MAXIMUM SAG



MAXIMUM CREST

③ APPROACH PROFILE DETAIL  
SCALE: N.T.S.

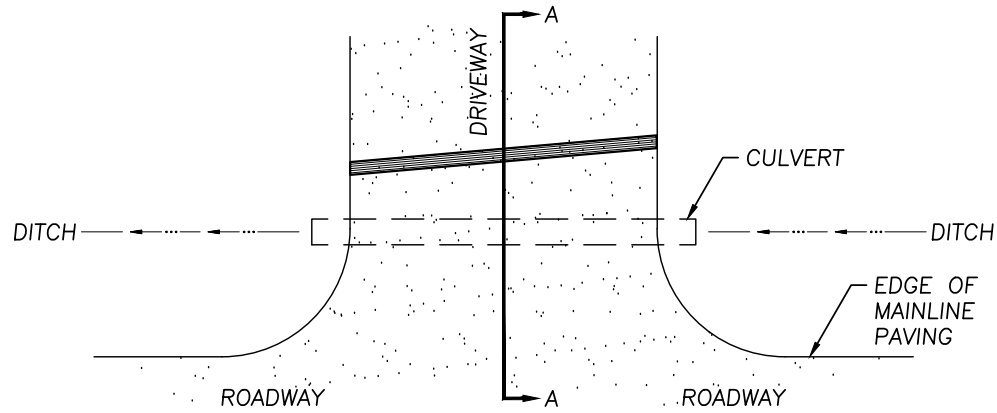


② SECTION A-A  
SCALE: N.T.S.

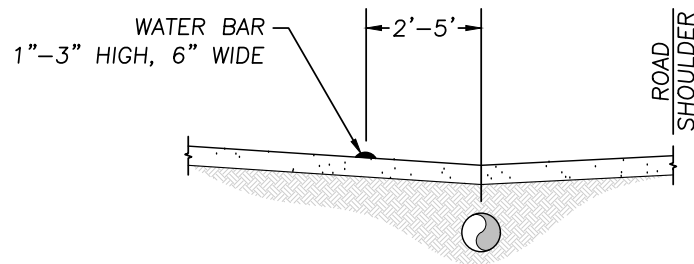
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



**RESURFACING  
DRIVEWAY APPROACH  
DETAIL**



① DRIVEWAY WATER BAR DETAIL  
SCALE: N.T.S.



② SECTION A-A  
SCALE: N.T.S.

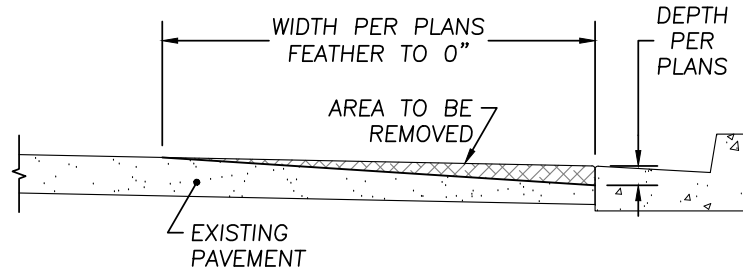
NOTES:

1. ON BOTH PAVED AND GRAVEL DRIVEWAYS, WATER BARS ARE REQUIRED ON SLOPES GREATER THAN 10%
2. ASPHALT WATER BARS REQUIRE A TACK COAT OF LIQUID ASPHALT TO BE APPLIED BEFORE BUILDING THE BERM
3. THE WATER BARS ARE TO BE OF ADEQUATE ELEVATION AND WIDTH TO ENSURE THAT THE WATER RUNOFF WILL NOT FLOW ONTO COUNTY ROAD SHOULDERS OR TRAVELLED WAY
4. WATER BARS SHALL BE 2' TO 5' MEASURED FROM THE CENTER OF THE CULVERT OR A MINIMUM OF 5' MEASURED FROM THE EDGE OF PAVEMENT

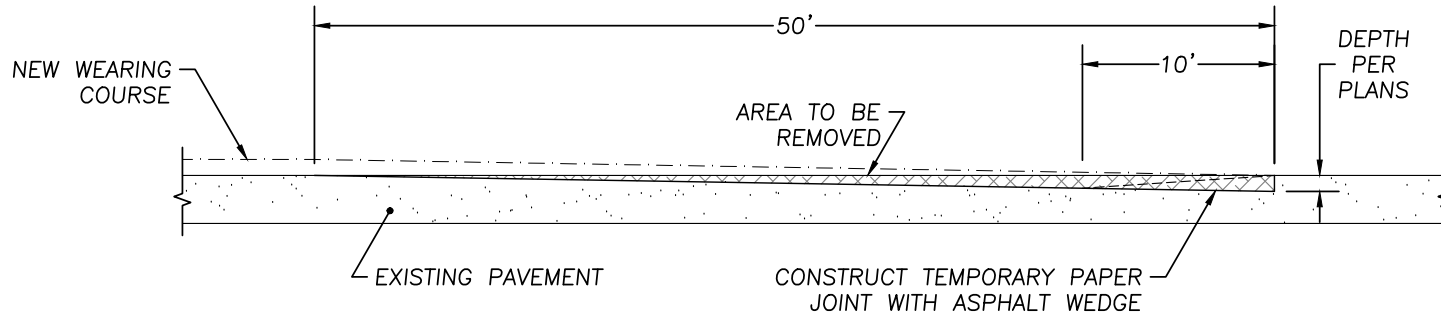
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**RESURFACING  
DRIVEWAY WATER BAR  
DETAIL**



① LONGITUDINAL PAVEMENT REMOVAL DETAIL  
SCALE: N.T.S.

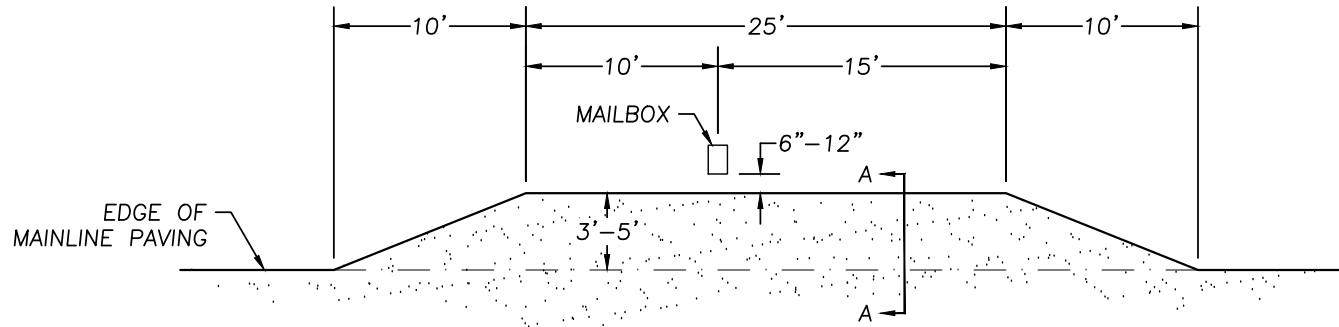


② TRANSVERSE PAVEMENT REMOVAL DETAIL  
SCALE: N.T.S.

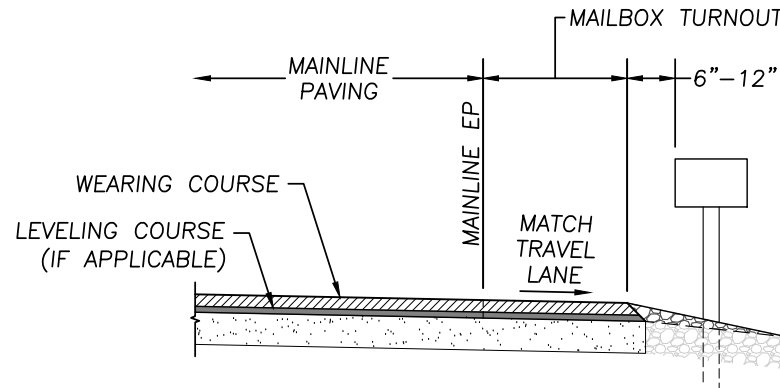
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



**RESURFACING  
PAVEMENT REMOVAL  
DETAIL**



① MAILBOX TURNOUT DETAIL  
SCALE: 1" = 10'

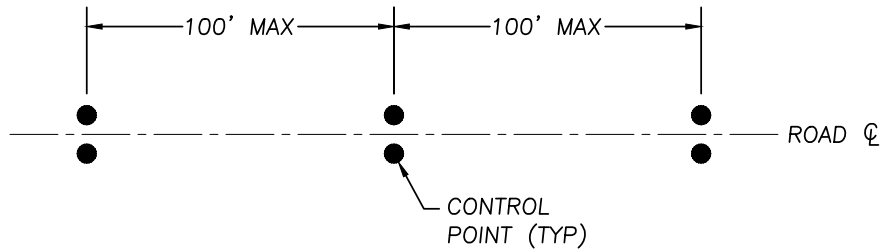


② SECTION A-A  
SCALE: N.T.S.

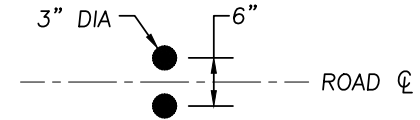
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



# RESURFACING MAILBOX TURNOUT DETAIL



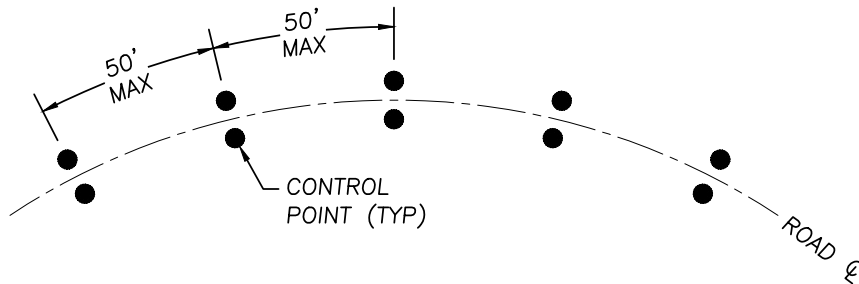
① ALIGNMENT LAYOUT - TANGENT SECTIONS  
SCALE: N.T.S.



③ CONTROL POINT DETAIL  
SCALE: N.T.S.



④ EDGE LINE CONTROL POINT DETAIL  
SCALE: N.T.S.



② ALIGNMENT LAYOUT - CURVE SECTIONS  
SCALE: N.T.S.

NOTES:

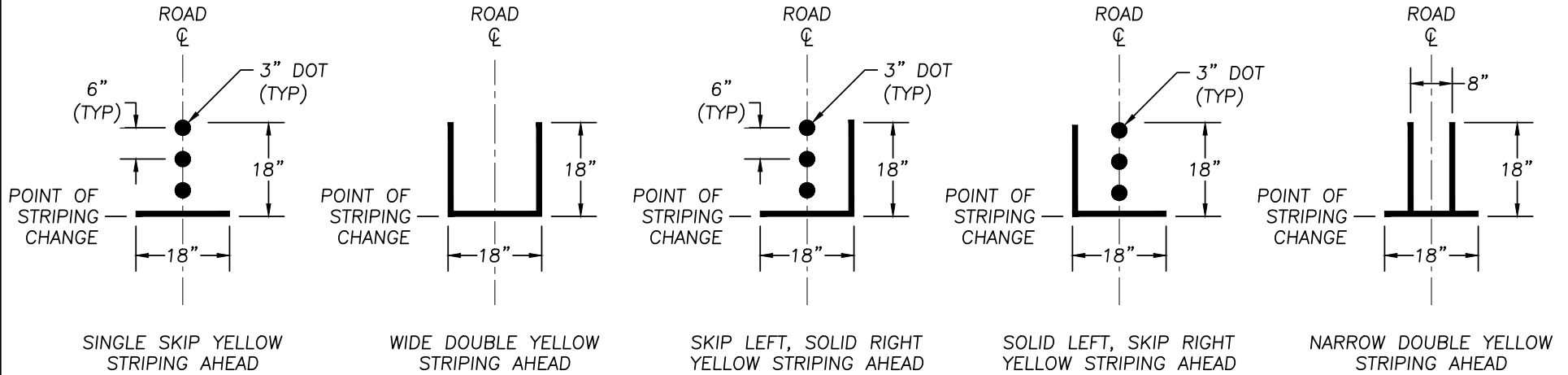
1. USE CHROME/SILVER PAINT FOR ALL MARKINGS
2. EDGE LINE ALIGNMENT LAYOUT TO ASSUME SAME FREQUENCY AS CENTERLINE ALIGNMENT LAYOUT

MARION COUNTY DEPARTMENT OF PUBLIC WORKS

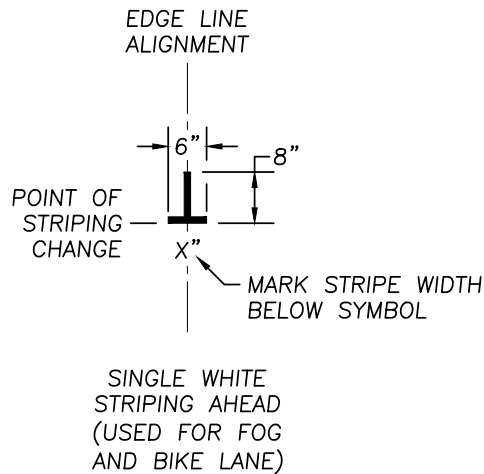


**RESURFACING  
ALIGNMENT LAYOUT  
MARKING DETAIL**

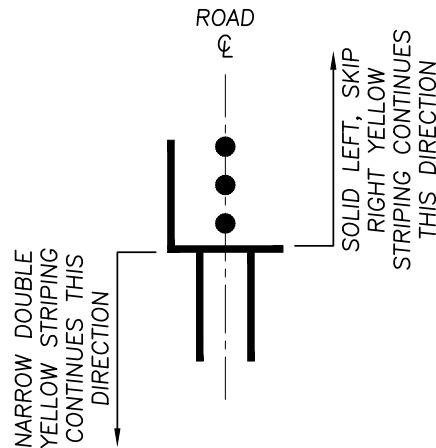




① CENTERLINE STRIPING LAYOUT MARKINGS  
SCALE: N.T.S.



② EDGE LINE STRIPING LAYOUT MARKING  
SCALE: N.T.S.



③ EXAMPLE STRIPING LAYOUT MARKING  
SCALE: N.T.S.

NOTES:

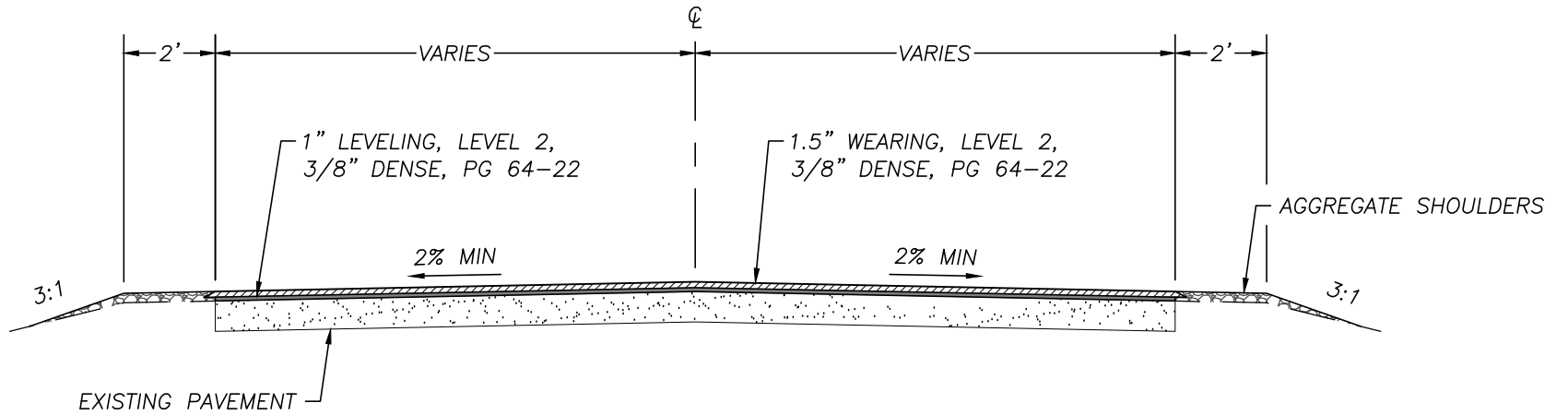
1. WHEN CHANGING STRIPING PATTERNS, MARK LAYOUT MARKINGS IN EITHER DIRECTION RELATIVE TO PATTERN CHANGE (SEE EXAMPLE DETAIL)
2. USE CHROME/SILVER PAINT FOR ALL MARKINGS
3. MARKING LINES TO BE 1" WIDE MIN

MARION COUNTY DEPARTMENT OF PUBLIC WORKS



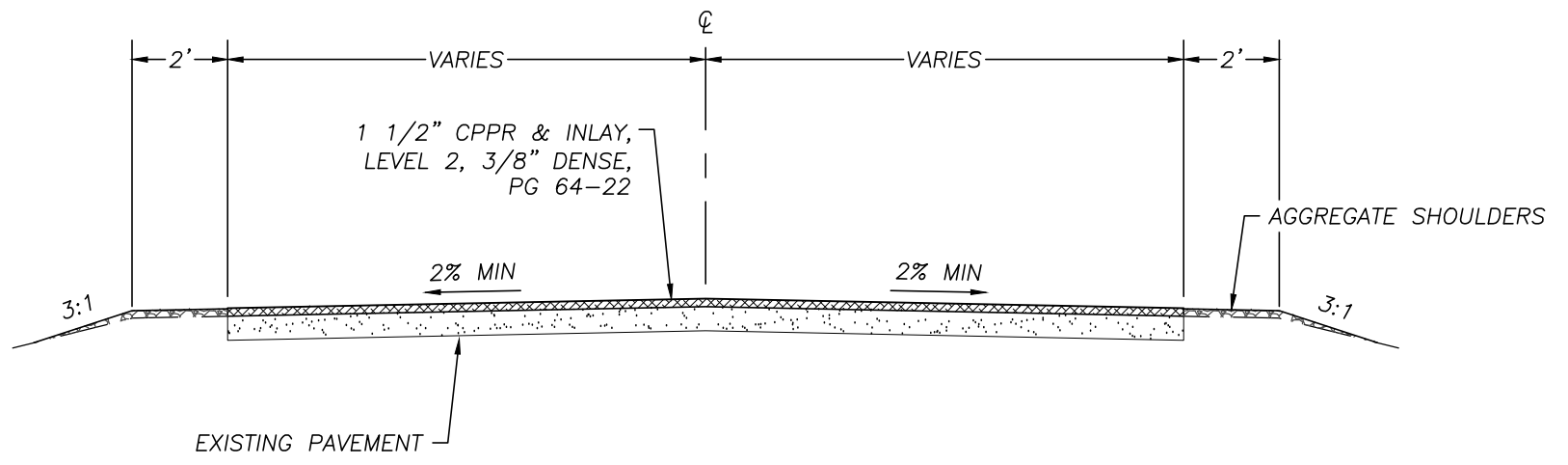
**RESURFACING STRIPING LAYOUT MARKING DETAIL**

FILE: G:\ENGINEERING\PROJECTCENTRAL\PROJECTS\RESURFACING2023\CAD\DRAWING\RESURFACING2023 TYPICAL SECTIONS.DWG PLOTTED: 2023/02/22 11:29 AM



① TYPICAL SECTION

SCALE: N.T.S. 1+00 - 85+61  
94+94 - 110+20  
118+09 - 210+20



② INLAY TYPICAL SECTION

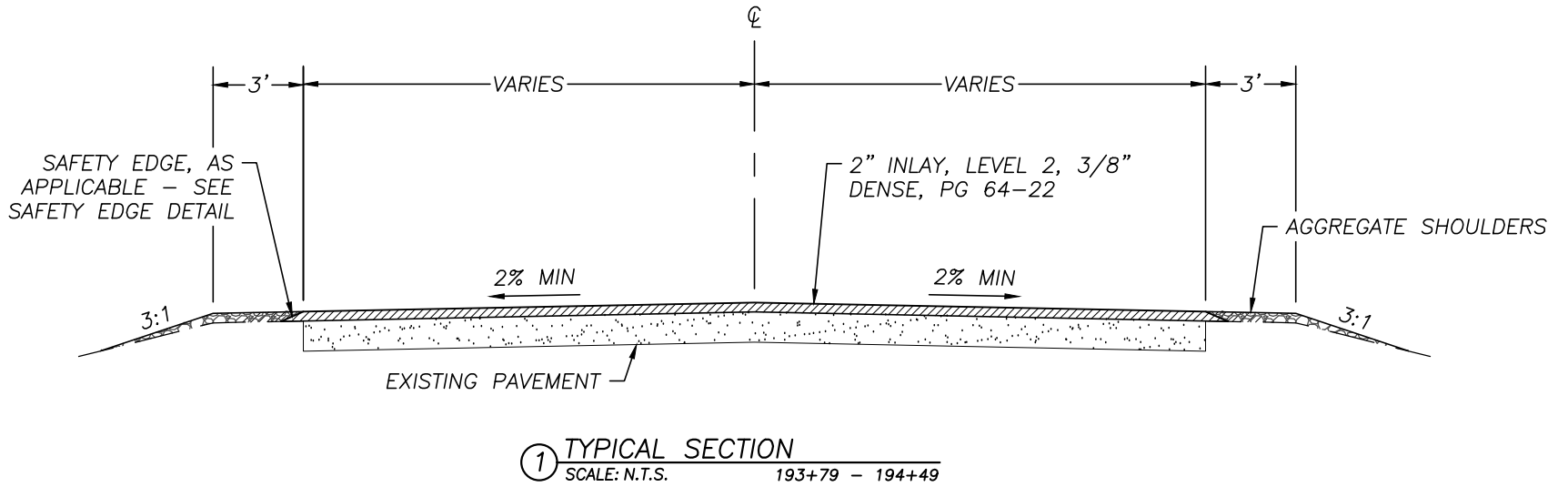
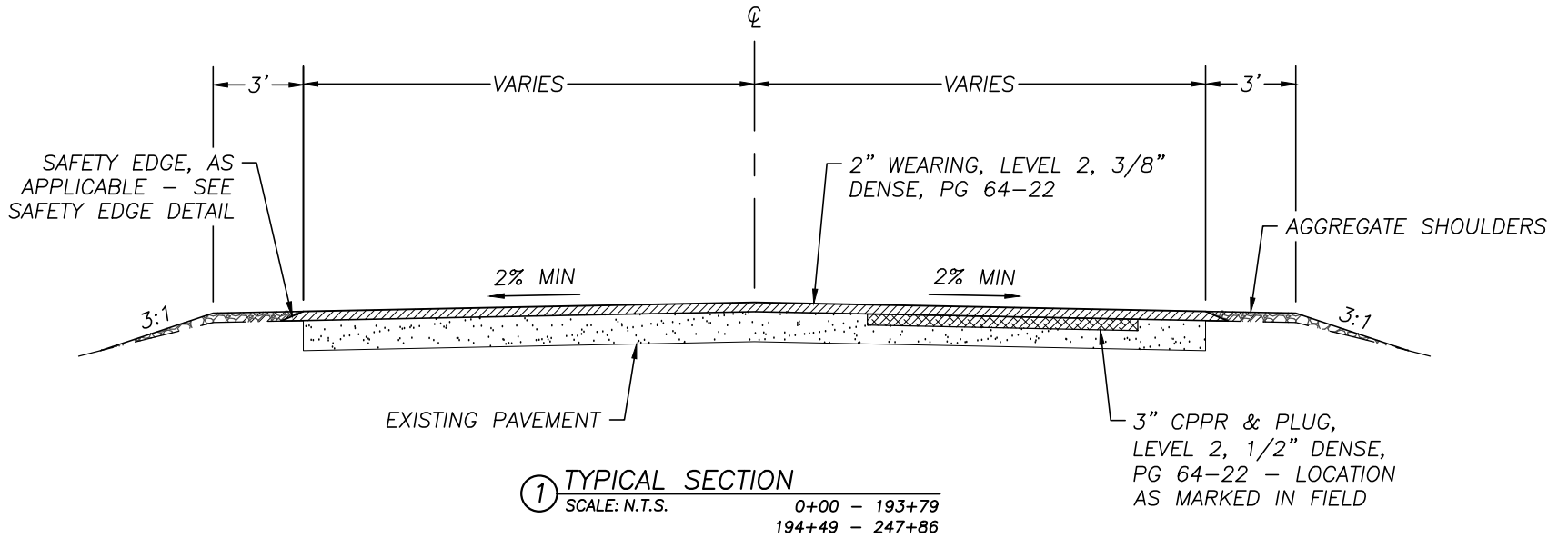
SCALE: N.T.S. 87+61 - 93+94  
111+20 - 117+09

MARION COUNTY DEPARTMENT OF PUBLIC WORKS



RESURFACING 2023  
LARDON RD NE  
TYPICAL SECTION

ECMS NO: 2023-101	PROJECT NO: 1	SCALE: N.T.S.	SHEET: T-1
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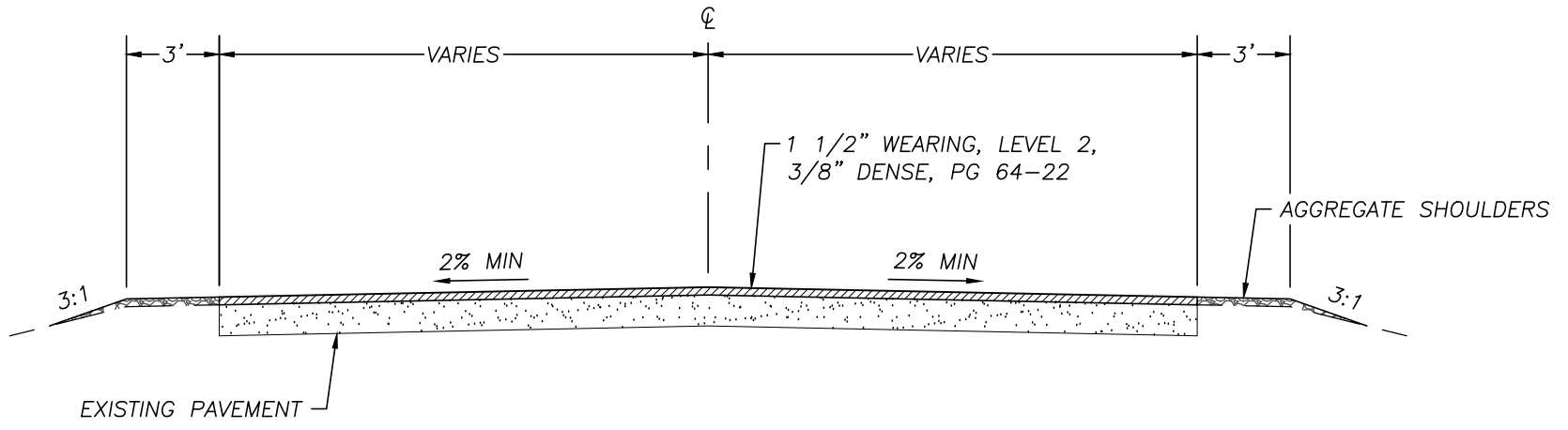


MARION COUNTY DEPARTMENT OF PUBLIC WORKS



RESURFACING 2023  
STATE ST SE  
TYPICAL SECTION

ECMS NO: 2023-101	PROJECT NO: 2	SCALE: N.T.S.	SHEET: T-2
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① TYPICAL SECTION  
SCALE: N.T.S. 0+00 - 60+19

MARION COUNTY DEPARTMENT OF PUBLIC WORKS



RESURFACING 2023  
62ND AVE SE  
TYPICAL SECTION

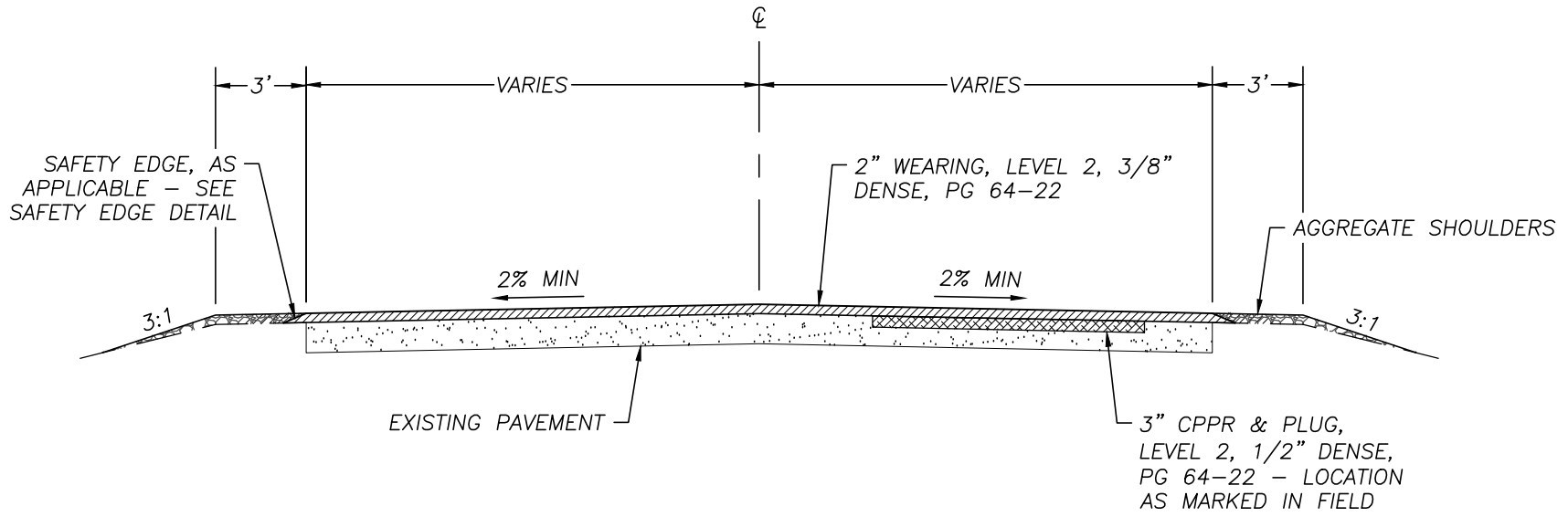
ECMS NO:  
2023-101

PROJECT NO:  
3

SCALE:  
N.T.S.

SHEET:  
T-3

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① TYPICAL SECTION  
SCALE: N.T.S. 0+00 - 207+50

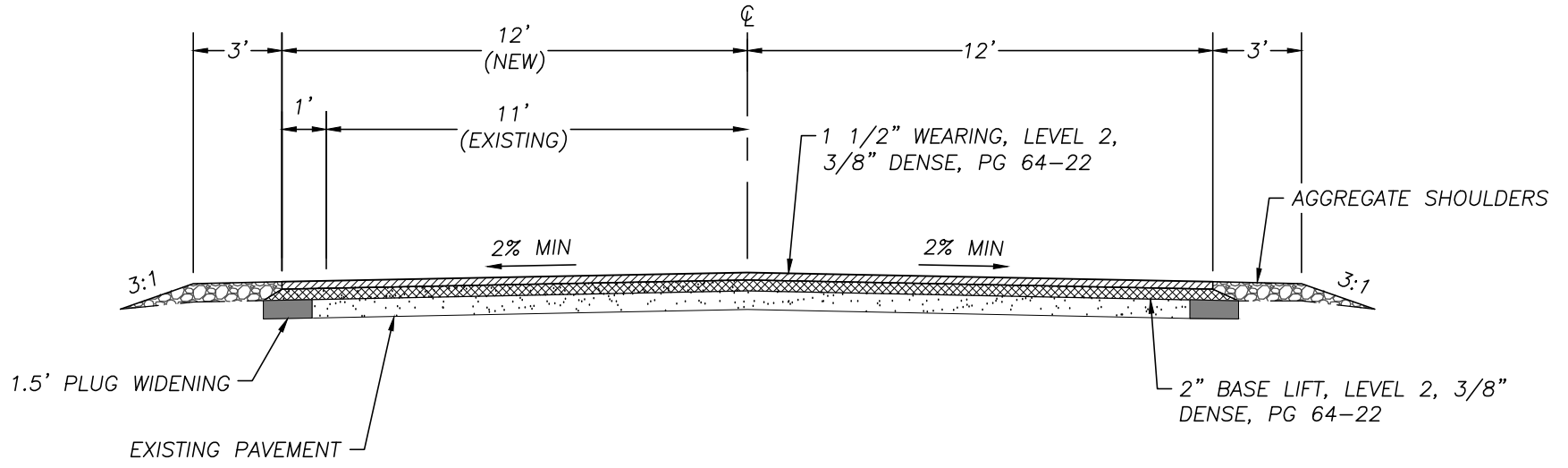
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



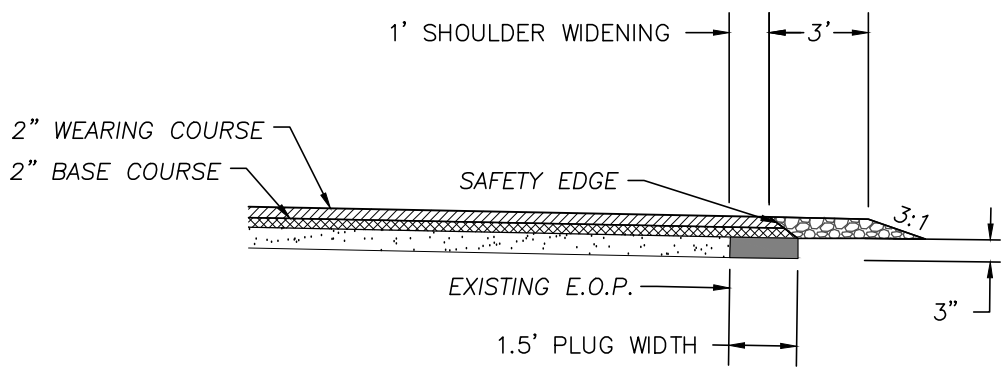
RESURFACING 2023  
MACLEAY RD SE  
TYPICAL SECTION

ECMS NO: 2023-101	PROJECT NO: 4	SCALE: N.T.S	SHEET: T-4
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① **TYPICAL SECTION**  
SCALE: N.T.S. 0+00 - 54+10

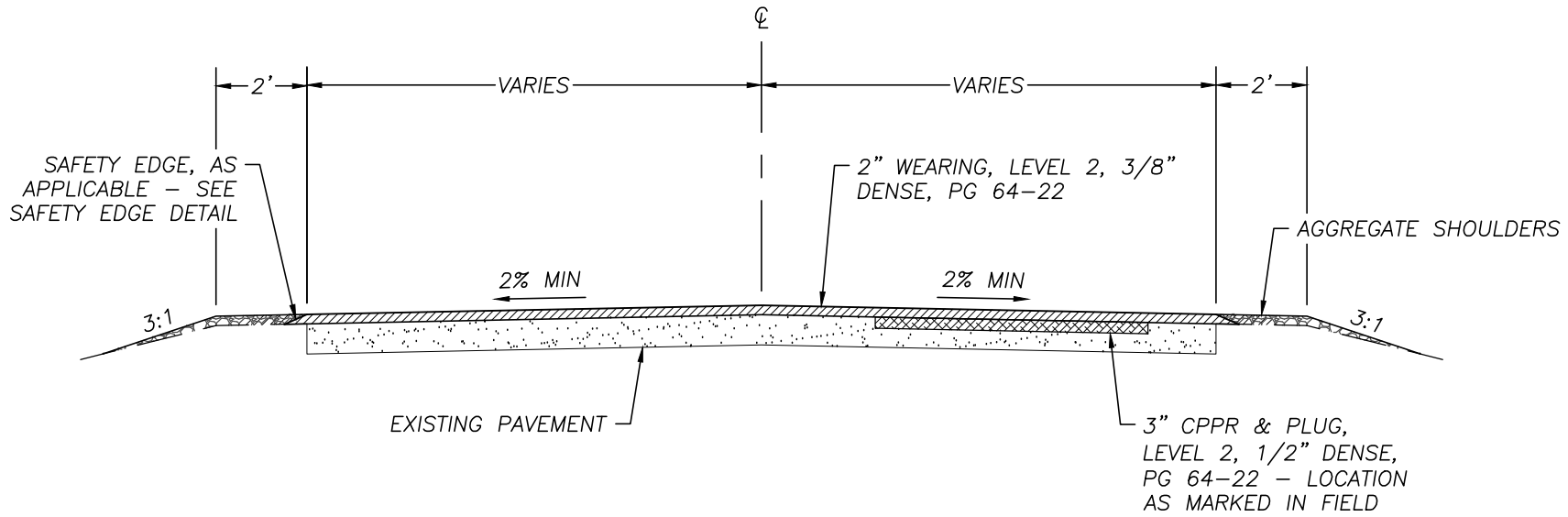


SHOULDER WIDENING, 3" PLUG.  
PLUG SHOULD BE COMPACTED  
SEPARATELY FROM LEVELING  
COURSE

⊖ **DETAIL**  
SCALE: N.T.S.

<b>MARION COUNTY DEPARTMENT OF PUBLIC WORKS</b>			
			
<b>RESURFACING 2023 CULVER DR SE TYPICAL SECTION</b>			
ECMS NO: 2023-101	PROJECT NO: 5	SCALE: N.T.S.	SHEET: T-5

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① TYPICAL SECTION  
SCALE: N.T.S. 0+00 - 75+90

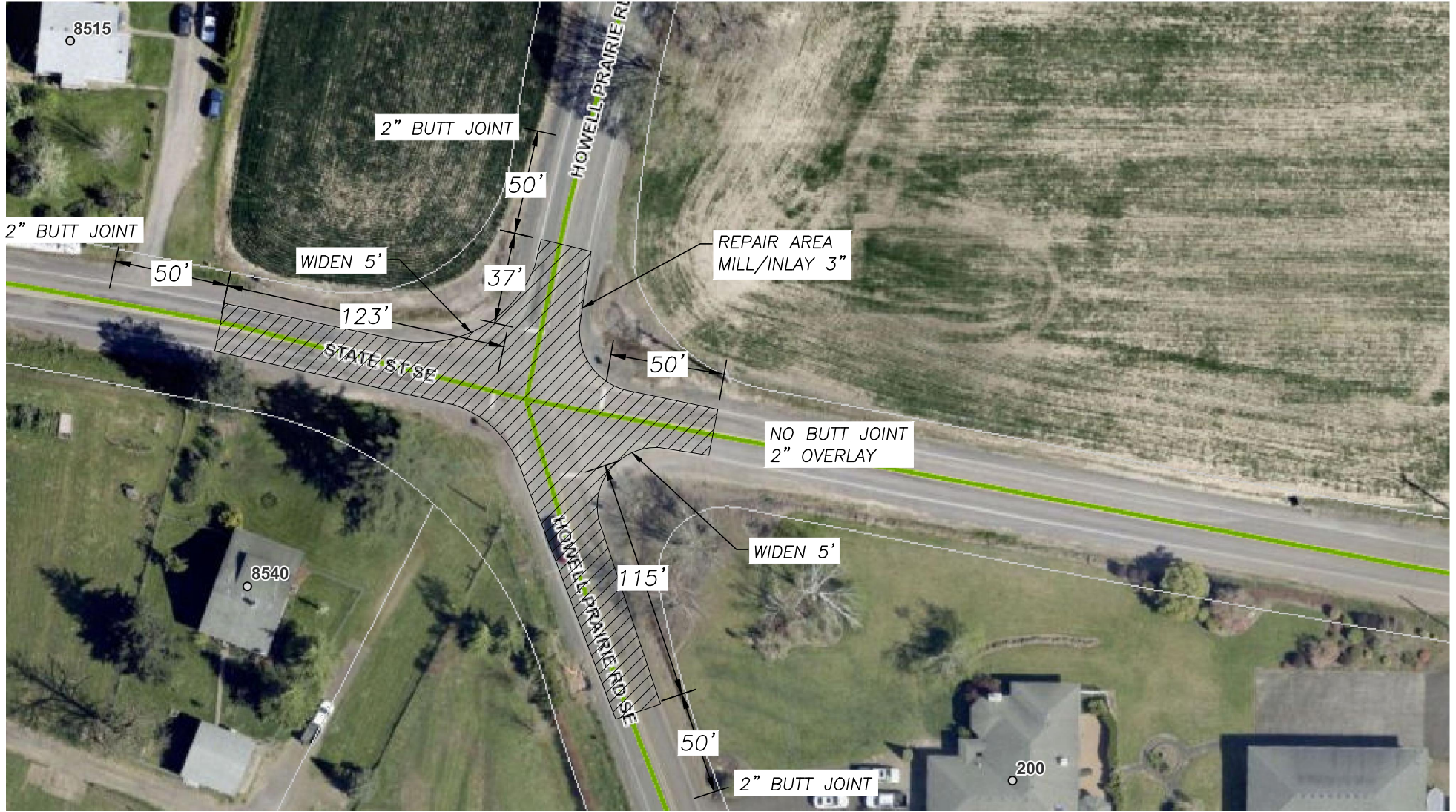
MARION COUNTY DEPARTMENT OF PUBLIC WORKS



RESURFACING 2023  
75TH AVE SE  
TYPICAL SECTION

ECMS NO: 2023-101	PROJECT NO: 6	SCALE: N.T.S.	SHEET: T-6
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⊖ REPAIR DETAIL  
SCALE: N.T.S.



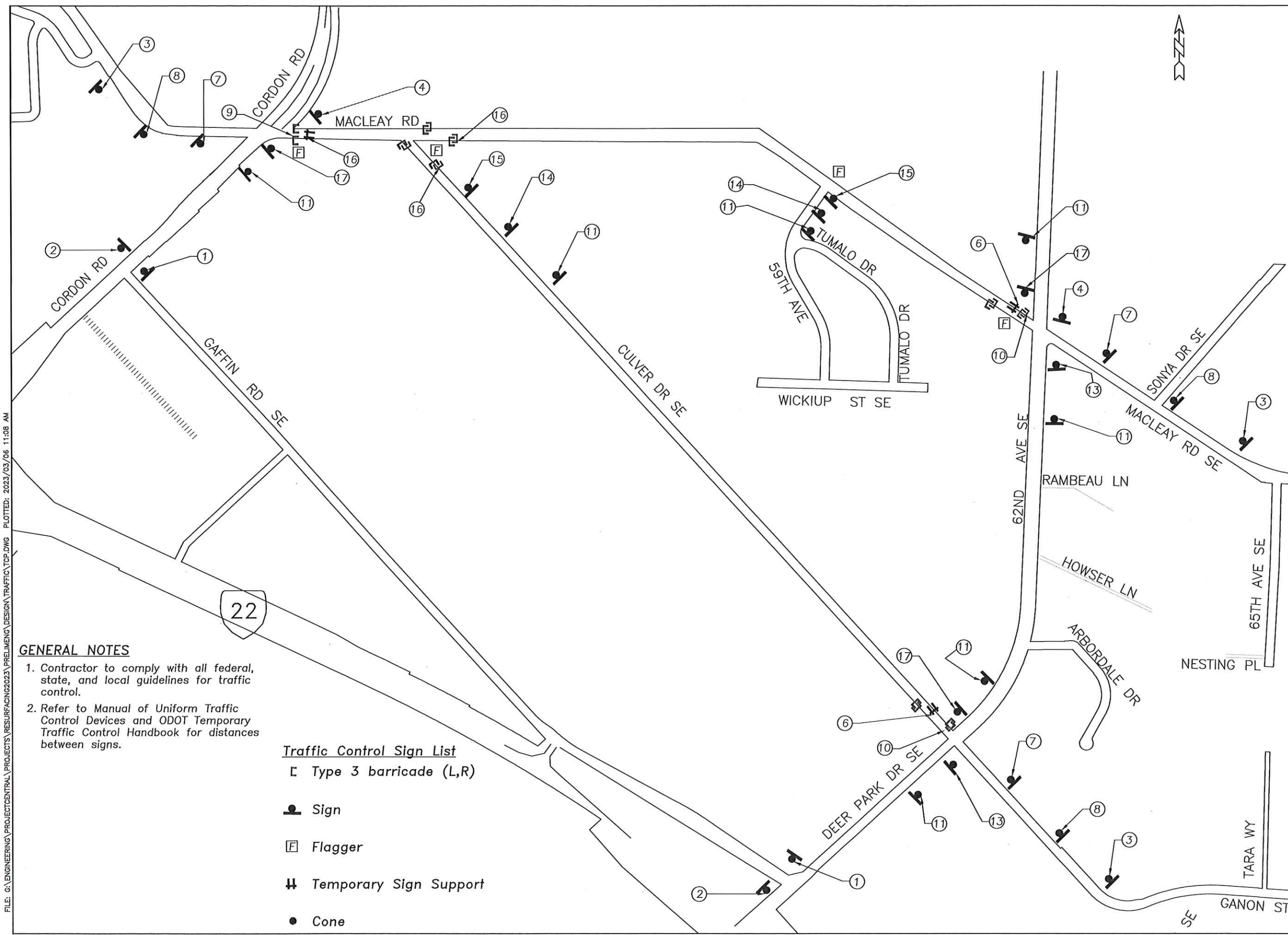
MARION COUNTY DEPARTMENT OF PUBLIC WORKS

**RESURFACING 2023  
HOWELL PRAIRIE RD  
REPAIR DETAIL**

ECMS NO: 2023-101	PROJECT NO: 2	SCALE: N.T.S	SHEET: R-1
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FILE: G:\ENGINEERING\PROJECTCENTRAL\PROJECTS\RESURFACING2023\PRELIMING\DESIGN\TRAFFIC\TCP.DWG PLOTTED: 2023/03/06 11:08 AM




**GENERAL NOTES**

1. Contractor to comply with all federal, state, and local guidelines for traffic control.
2. Refer to Manual of Uniform Traffic Control Devices and ODOT Temporary Traffic Control Handbook for distances between signs.

**Traffic Control Sign List**

- ☐ Type 3 barricade (L,R)
- 🚧 Sign
- 👤 Flagger
- 🚧 Temporary Sign Support
- Cone

FEDERAL HIGHWAY ADMINISTRATION  
OREGON DIVISION



REGISTERED PROFESSIONAL ENGINEER  
99,415  
*Carl K. Lund*  
OREGON  
MARCH 8, 2022  
CARL K. LUND  
EXPIRES 12-31-2024

MARION COUNTY

**MACLEAY RD SE OVERLAY**

DEPARTMENT OF PUBLIC WORKS

PROJECT NO.:	####
ECMS NO.:	####
FED. PROJ. NO.:	####
KEY NO.:	####
SITE NO.:	####
HORIZ. DATUM:	OCRS SALEM
VERT. DATUM:	NAVD88
DESIGNED BY:	####
DRAWN BY:	####

TITLE:  
**MACLEAY RD SE CLOSURE**

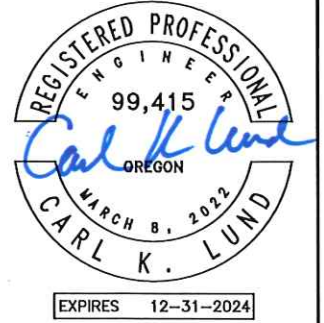
SHEET:  
**DTP-1**

Traffic Control Sign List

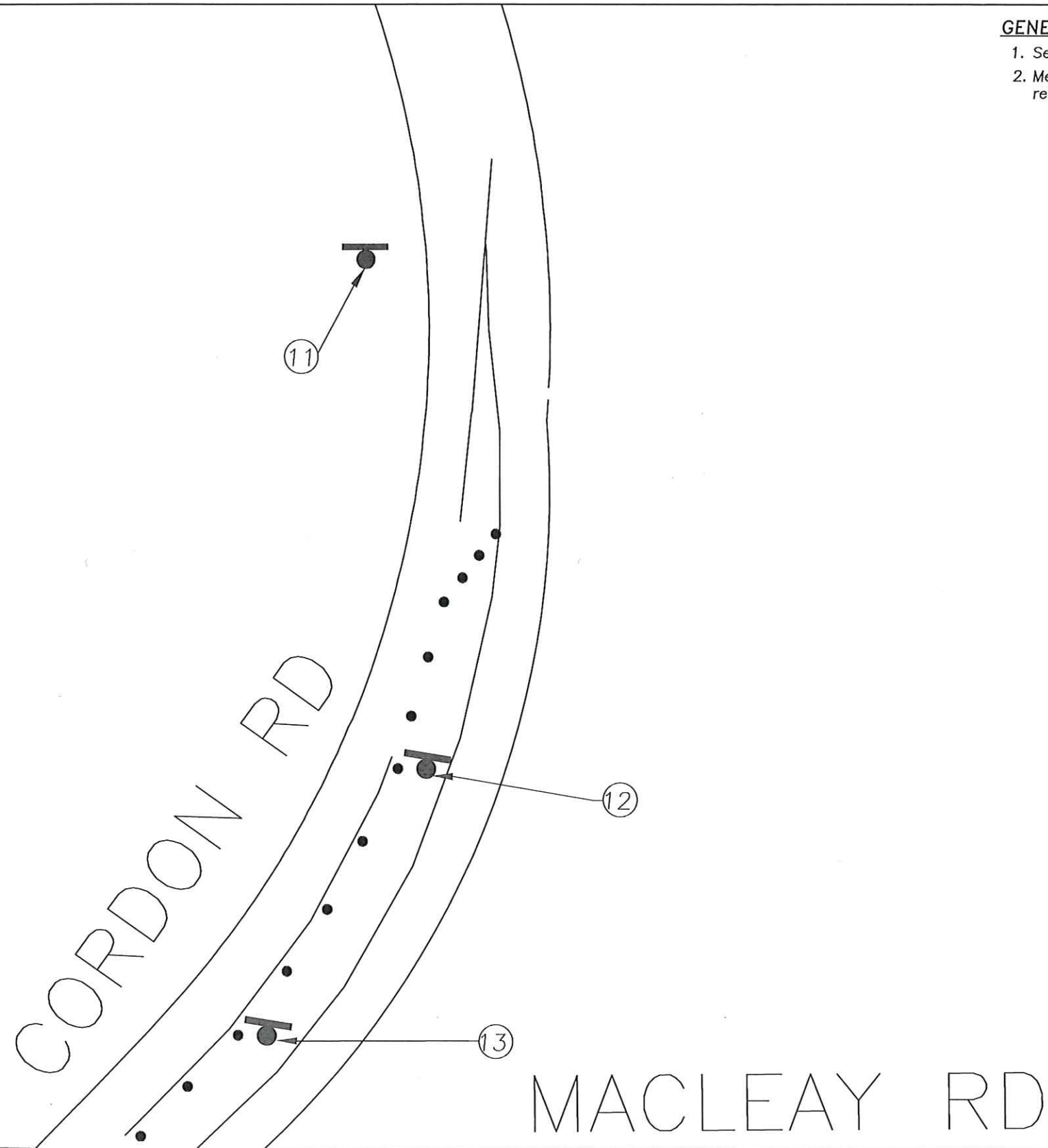
- ☐ Type 3 barricade (L,R)
- Sign
- ☐ Flagger
- ⚡ Temporary Sign Support
- Cone

GENERAL NOTES

1. See Diagram 605 from ODOT TTCH
2. Meet cone taper and spacing requirements per ODOT TTCH



FILE: G:\ENGINEERING\PROJECTCENTRAL\PROJECTS\RESURFACING2023\PRELIMING\DESIGN\TRAFFIC\TCP.DWG PLOTTED: 2023/03/06 11:08 AM



MARION COUNTY

**MACLEAY RD SE OVERLAY**

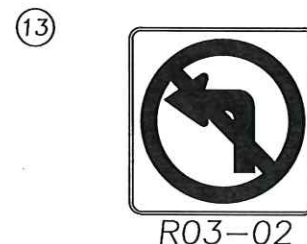
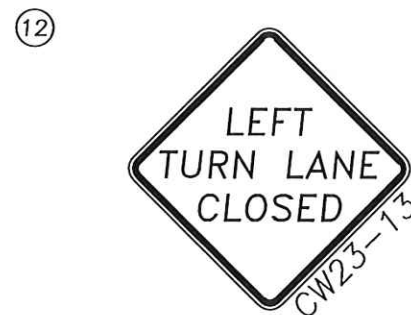
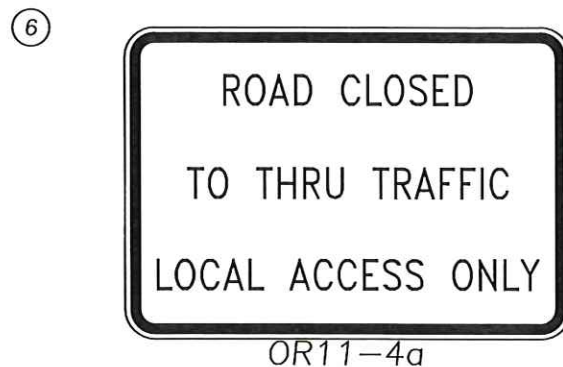
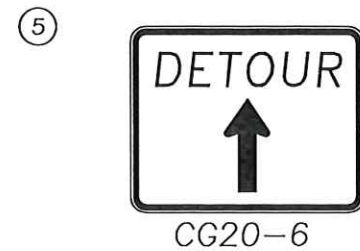
DEPARTMENT OF PUBLIC WORKS

PROJECT NO.:	###
ECMS NO.:	###
FED. PROJ. NO.:	###
KEY NO.:	###
SITE NO.:	###
HORIZ. DATUM:	OCRS SALEM
VERT. DATUM:	NAVD88
DESIGNED BY:	###
DRAWN BY:	###


TITLE:  
**LEFT TURN CLOSURE PHASE 1**

SHEET:  
**DTP-2**

FILE: G:\ENGINEERING\PROJECTCENTRAL\PROJECTS\RESURFACING2023\PRELIMING\DESIGN\TRAFFIC\TOP.DWG PLOTTED: 2023/03/06 11:08 AM



FEDERAL HIGHWAY ADMINISTRATION  
OREGON DIVISION



REGISTERED PROFESSIONAL ENGINEER  
99,415  
*Carl K. Lund*  
OREGON  
MARCH 8, 2022  
CARL K. LUND  
EXPIRES 12-31-2024

MARION COUNTY

**MACLEAY RD SE OVERLAY**

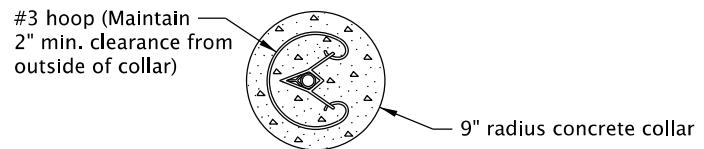
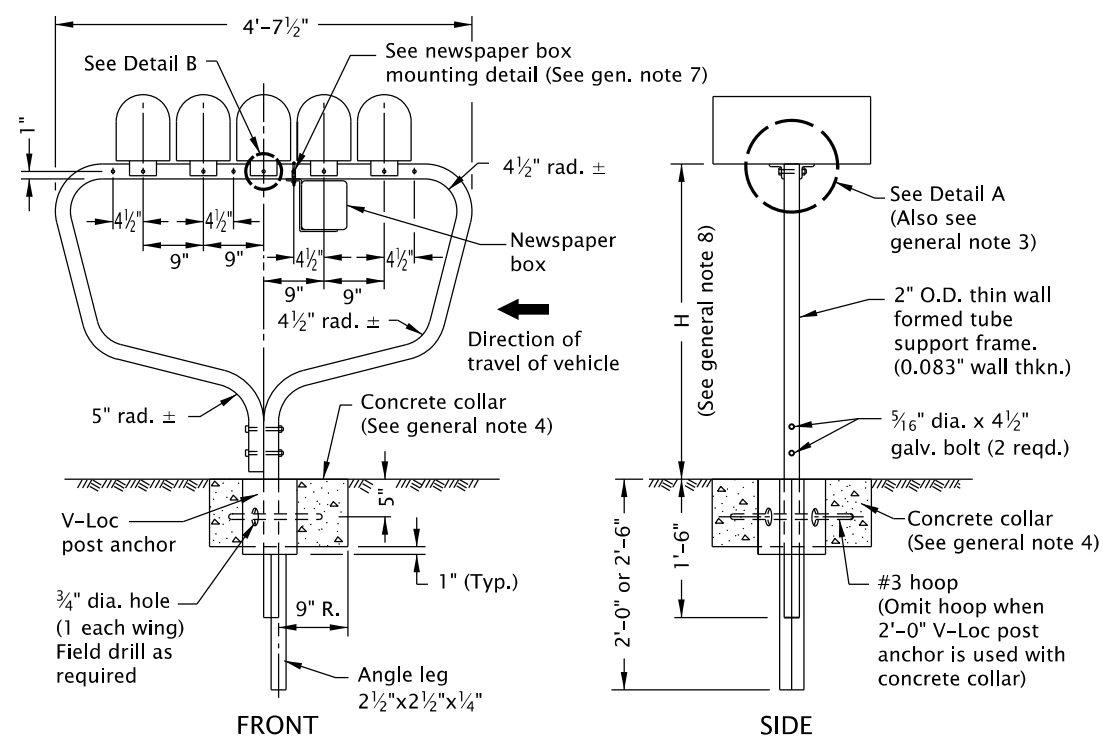
DEPARTMENT OF PUBLIC WORKS

PROJECT NO.:	###
ECMS NO.:	###
FED. PROJ. NO.:	###
KEY NO.:	###
SITE NO.:	###
HORIZ. DATUM:	OCRS SALEM
VERT. DATUM:	NAVD88
DESIGNED BY:	###
DRAWN BY:	###

TITLE:  
MACLEAY RD SE  
DETAILS

SHEET:  
DTP-3

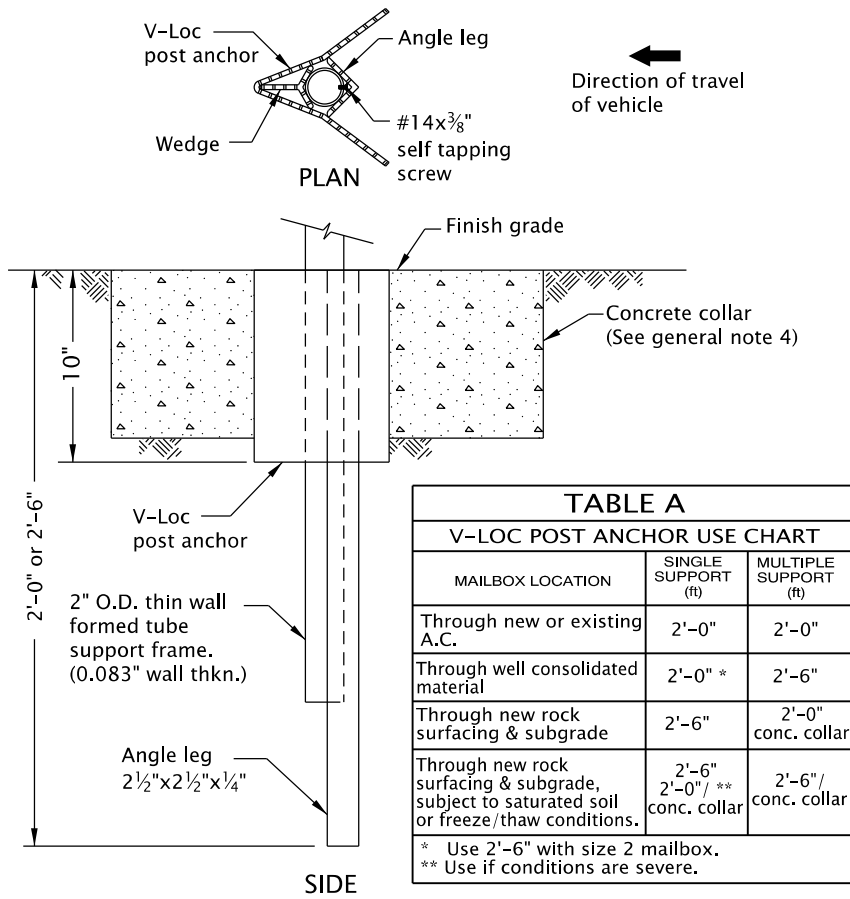
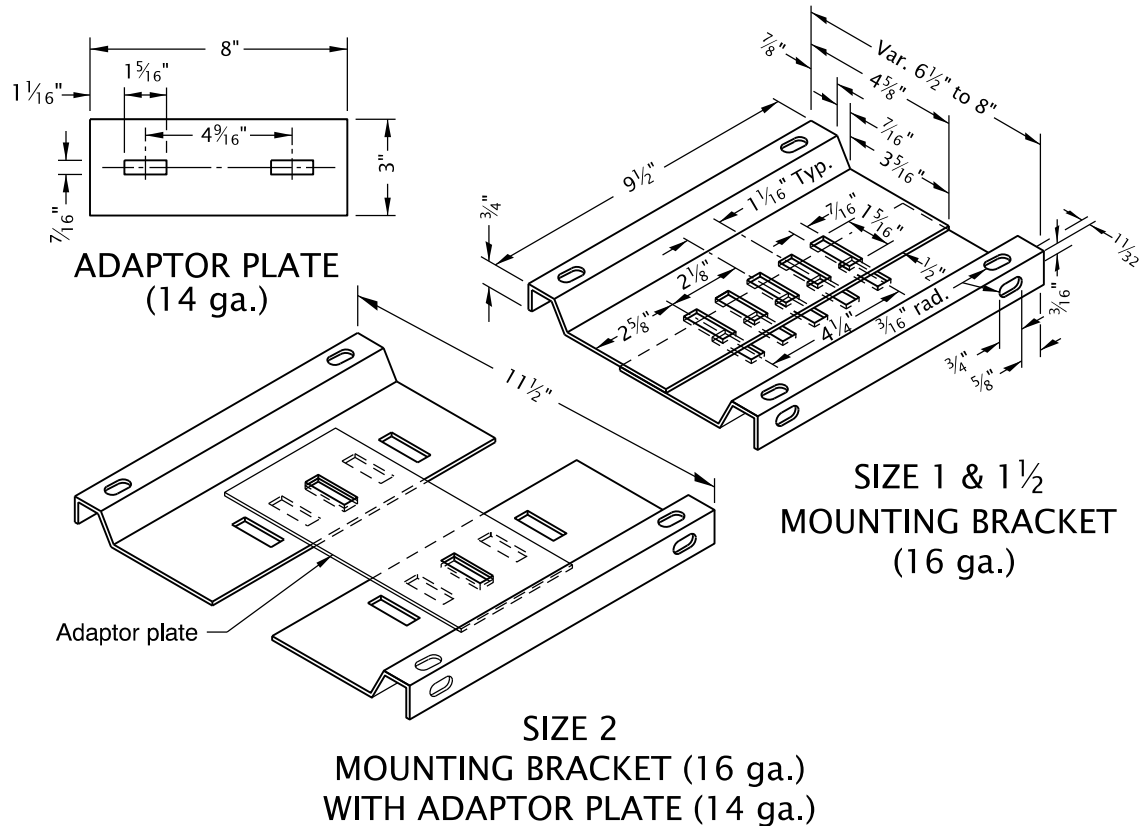
rd100.dgn 20-JUL-2020



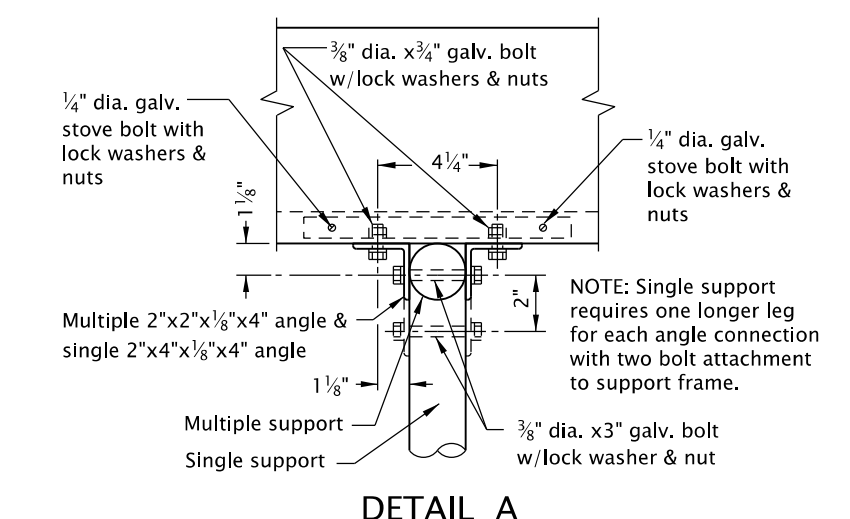
**CONCRETE COLLAR**  
(See general note 4)

**MULTIPLE SUPPORT**

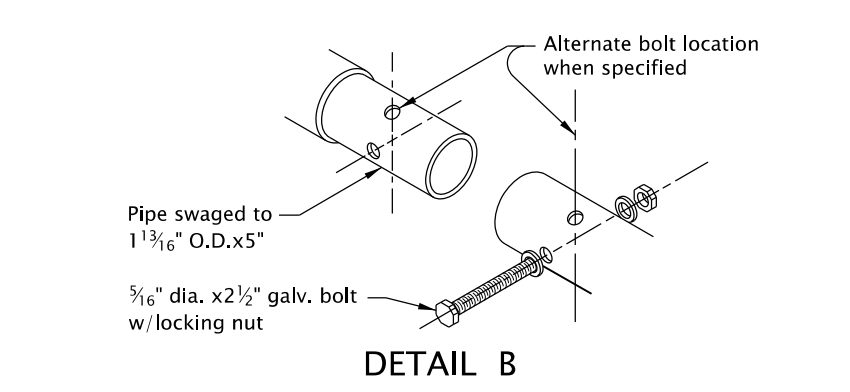
(Supports 5 standard (Sizes 1 & 1 1/2) mailboxes or 4 large (Size 2) mailboxes)



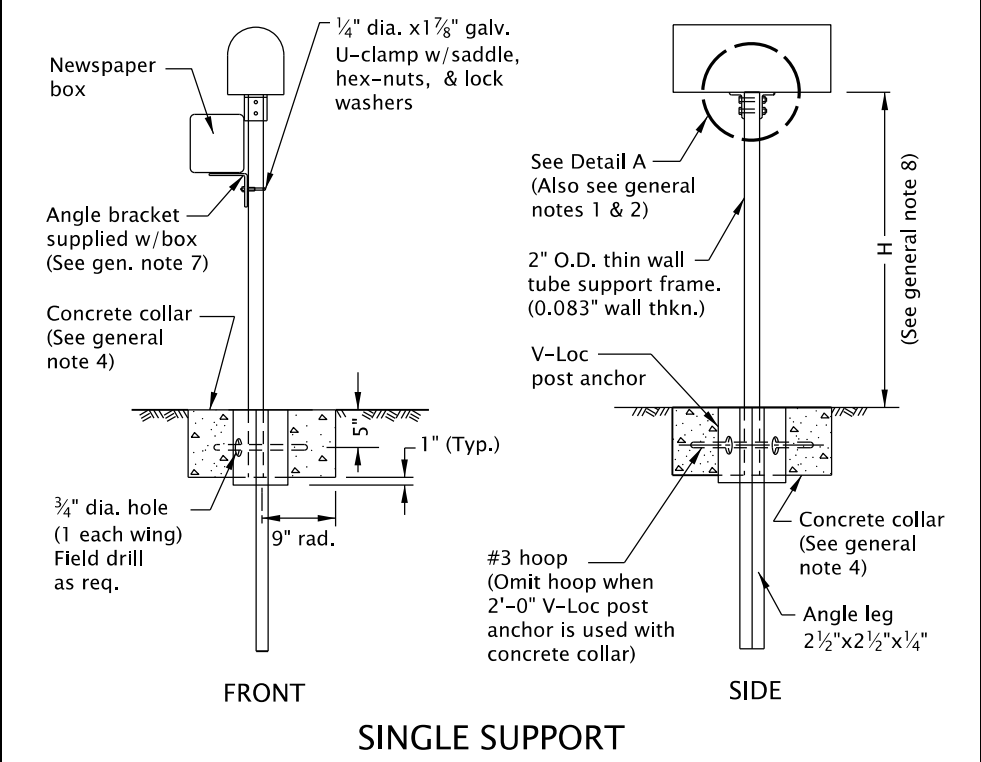
**POST MOUNTING SOCKET**



**DETAIL A**



**DETAIL B**



**SINGLE SUPPORT**

- GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**
- Angle connections to be parallel to traffic flow for Size 2 mailbox mounted on single post.
  - All holes in the tube support frame are to be predrilled by the manufacturer.
  - Size 2 mailbox mounted on a multiple support requires 2 each 3/8" dia. x 5/8" galv. bolts with lock washers and nuts to attach the adaptor plate to the mounting bracket. The unit will then require 4 angle connections to attach to the formed tube support frame. See Detail A.
  - Provide concrete collar when any of the following conditions exist:
    - when required in Table A
    - when required by project plans
    - as directed by the Engineer
 Concrete collar, when required, to be poured in place after V-Loc post anchor has been installed, level and plumb. Do not excavate below bottom of V-Loc post anchor. Care shall be taken that no concrete is placed within anchor.
  - Other proprietary products available as listed in ODOT's QPL.
  - For mailbox installation locations, see Std. Dwg. RD101 and project plans.
  - For Newspaper Box Mounting Detail, see Std. Dwg. RD101.
  - Mounting height (H) shall be 42" nominal, measured from vehicle driving surface.
  - See project plans for detail not shown.

CALC. BOOK NO.          N/A          SDR DATE          25-JUL-2017         

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

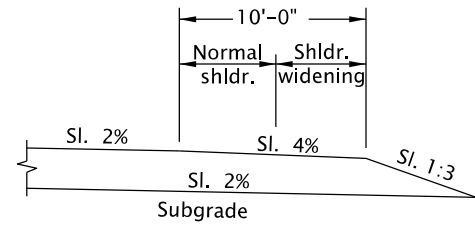
**MAILBOX SUPPORT**

2021

DATE	REVISION DESCRIPTION

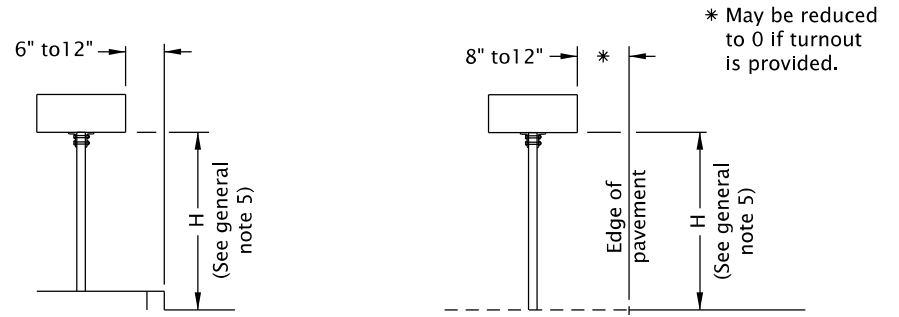
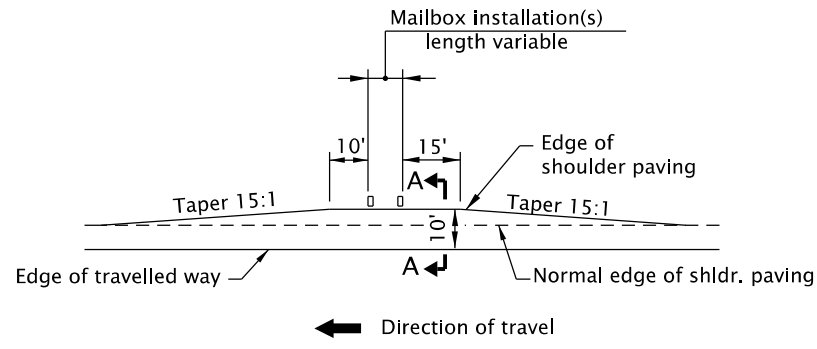
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

rd101.dgn 20-JUL-2020



**SECTION A-A**

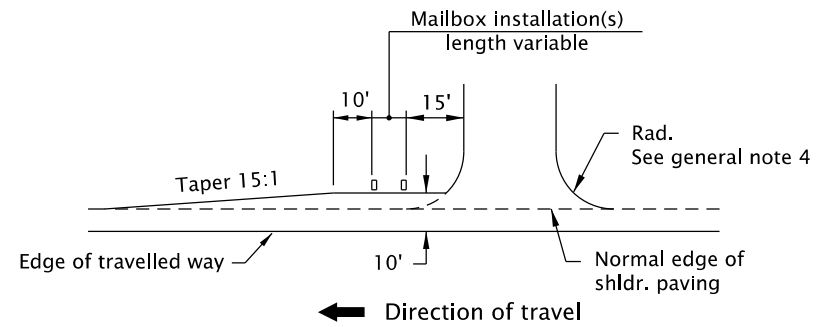
**MAILBOX SERVICE TURNOUT**



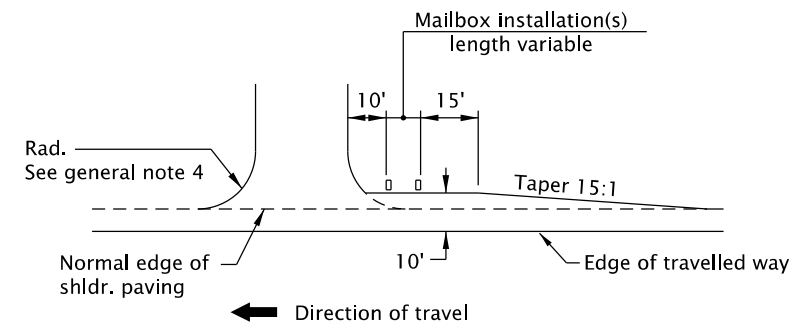
**CURBED SECTION**

**NON-CURBED SECTION**

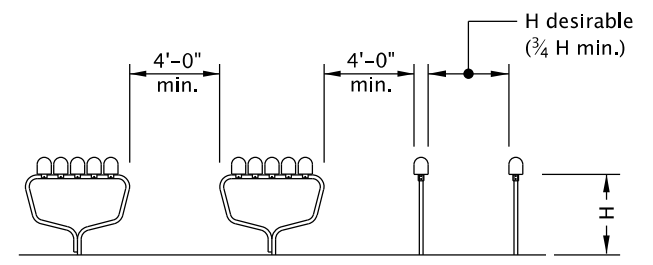
**PLACEMENT**



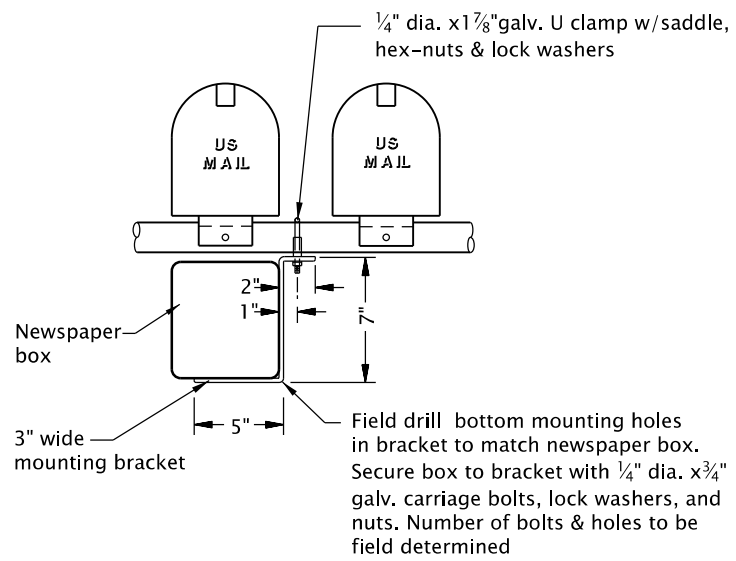
**MAILBOX SERVICE TURNOUT AFTER APPROACH**



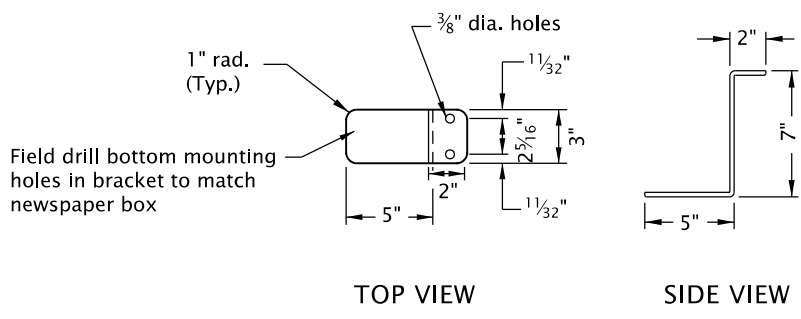
**MAILBOX SERVICE TURNOUT BEFORE APPROACH**



**SUPPORT SPACING**



**NEWSPAPER BOX MOUNTING DETAIL**



**TOP VIEW**

**SIDE VIEW**

**NEWSPAPER BOX MOUNTING BRACKET DETAIL (14 ga.)**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. All holes in the tube support frame are to be predrilled by the manufacturer.
2. Other proprietary products available as listed in ODOT's QPL.
3. For mailbox support details, see Std. Dwg. RD100.
4. For approach details, see Std. Dwg. RD715.
5. Mounting height (H) shall be 42" nominal, measured from vehicle driving surface.
6. See project plans for details not shown.

CALC. BOOK NO. <u>    N/A    </u>	SDR DATE <u>    25-JUL-2017    </u>
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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

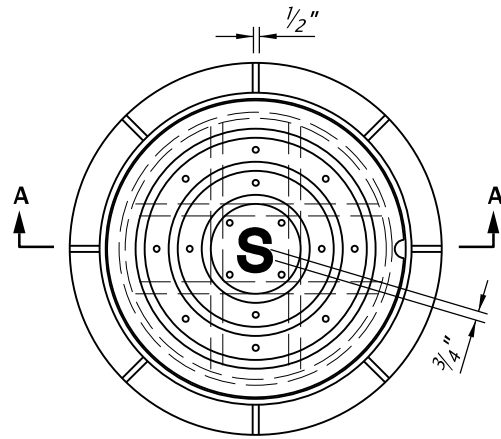
**MAILBOX INSTALLATION**

2021

DATE	REVISION DESCRIPTION

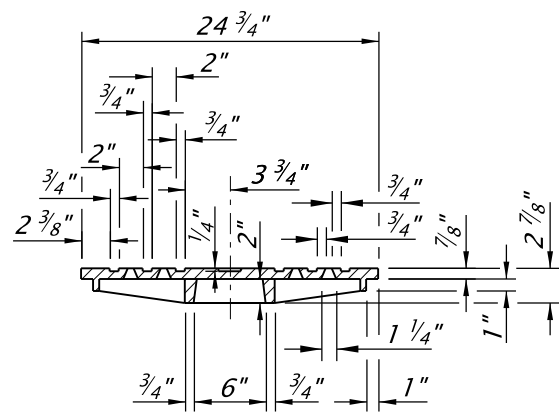
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

RD356.dgn 15-JUL-2022

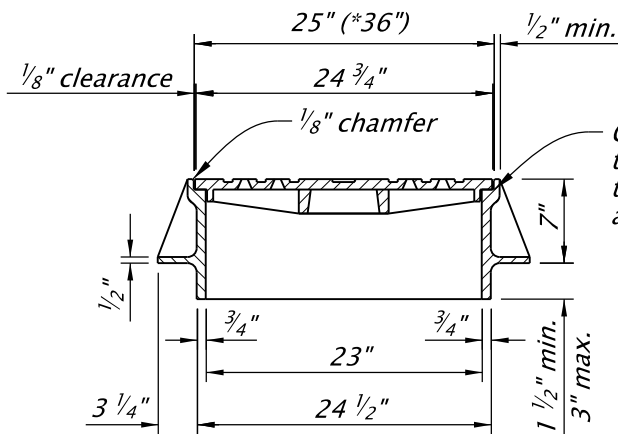


**NOTE:**  
Coat outside of frame with asphalt where frame is to be placed in concrete, pavement, concrete gutter or walk.

**PLAN**

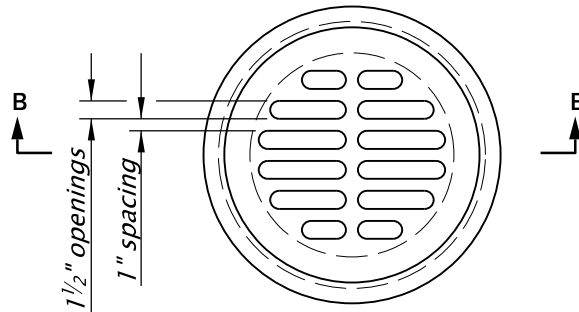


**COVER SECTION A-A**



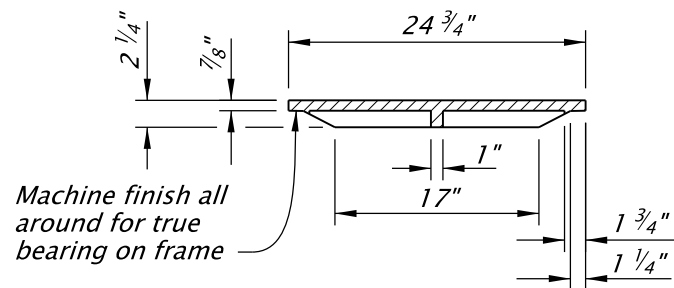
**FRAME SECTION A-A**  
**STANDARD MANHOLE COVER AND FRAME**

\*36 inch minimum diameter cover is required for manholes with depths of 20 feet or greater. See general note 4.



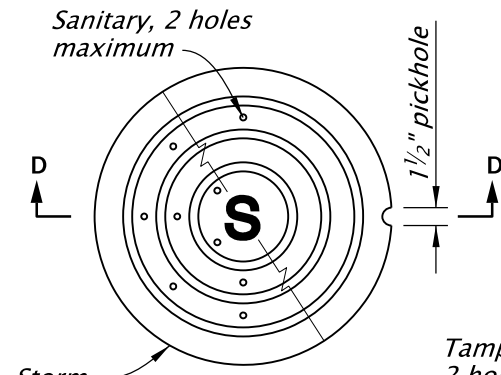
**NOTE:**  
For use with standard manhole frame. See general note 7.

**PLAN**

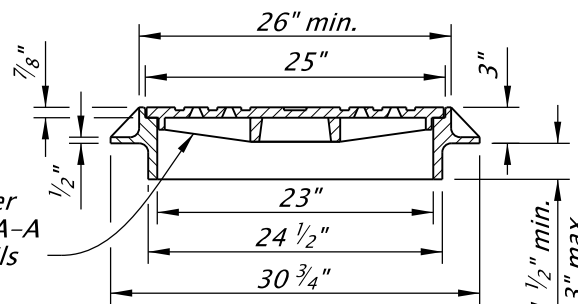


**SECTION B-B**  
**STANDARD MANHOLE GRATE**

Machine finish all around for true bearing on frame



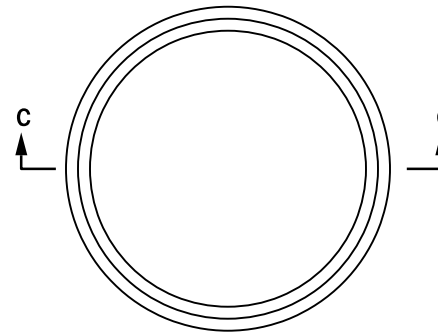
**PLAN**



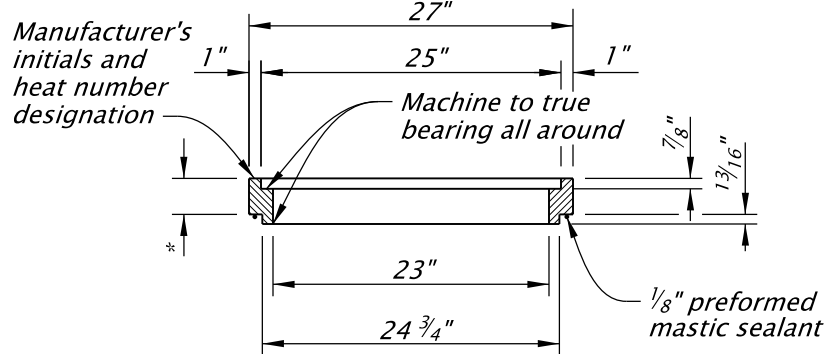
**SECTION D-D**

**CAST IRON SUBURBAN MANHOLE COVER AND FRAME**

For use on local streets only, as specified



**PLAN**

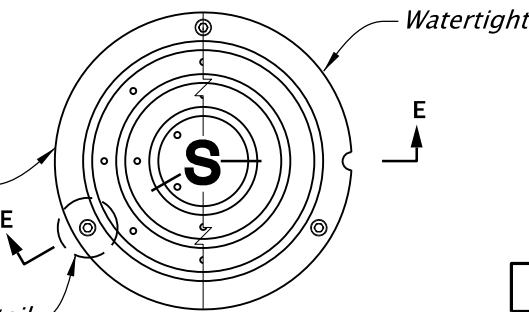


**SECTION C-C**

\* Standard depths 1 1/2", 2", 2 1/2" and 3". Material to be grey cast iron ASTM A48, Class 35B. Tolerance on non-machined surfaces to be ±0.06". See general note 6

**MANHOLE ADJUSTMENT RING**

For use with Standard Manhole Frame



**PLAN**

**CAST IRON TAMPERPROOF AND WATERTIGHT COVER**

Frames available in standard or suburban pattern

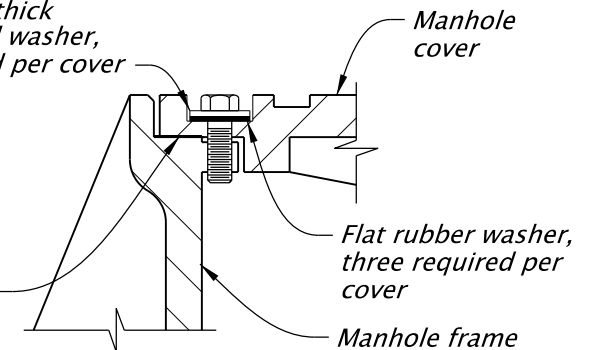
**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Tamperproof covers required on sanitary or storm drain manhole where located in pedestrian ways or easement areas. Covers for sanitary manholes shall have two holes maximum.
2. Watertight covers required if located where cover may be submerged (no holes).
3. Covers and frames shall be stamped with manufacturer's initials, heat number and point of origin.
4. See Std. Dwg. RD336 for manhole steps.
5. See Std. Dwg. RD360 for manhole frame adjustment.
6. See ODOT's QPL for alternate manhole adjustment rings.
7. Manhole grate allowed only in locations not subject to bicycle or pedestrian use.
8. See ODOT's QPL for alternate bolt-down products.

1 1/4" OD x 1/8" thick stainless steel washer, three required per cover

1/4" neoprene gasket, omit for tamperproof cover

**NOTE:**  
Three required, equally spaced, 1/2"x1 1/2" pentagonal or hexagonal head, bronze or stainless steel. Install frame so that one bolt boss is located over the manhole steps. See general note 8



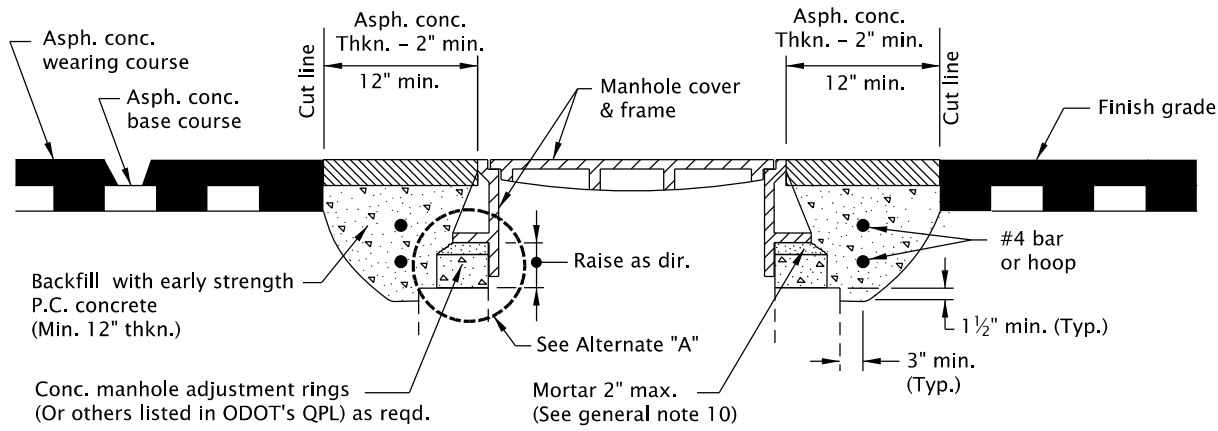
**BOLT DOWN DETAIL**

For tamperproof and watertight covers

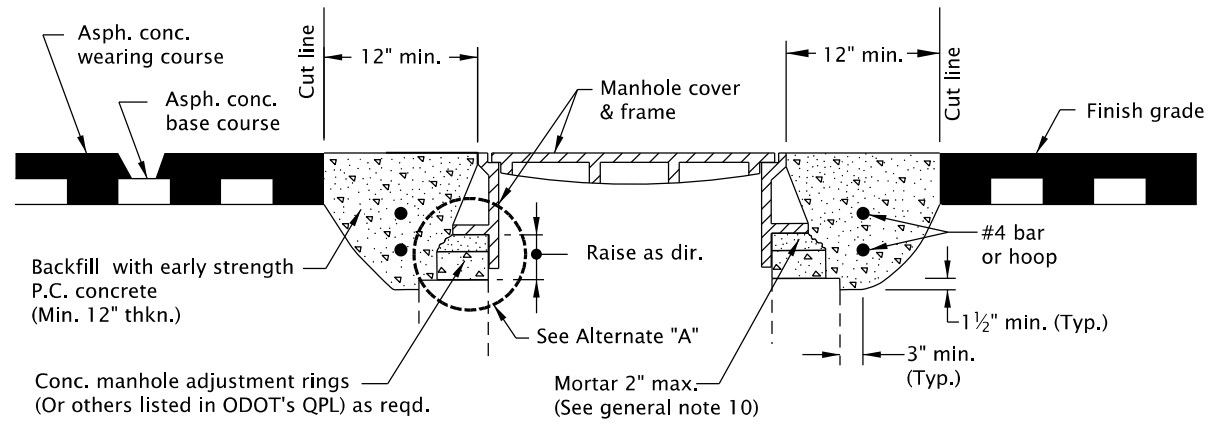
CALC. BOOK NO. <b>N/A</b>		SDR DATE <b>15-JUL-2022</b>	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
<b>OREGON STANDARD DRAWINGS</b>			
<b>MANHOLE COVERS AND FRAMES</b>			
2021			
DATE	REVISION	DESCRIPTION	
07-2022		REVISED DETAILS AND NOTES	

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

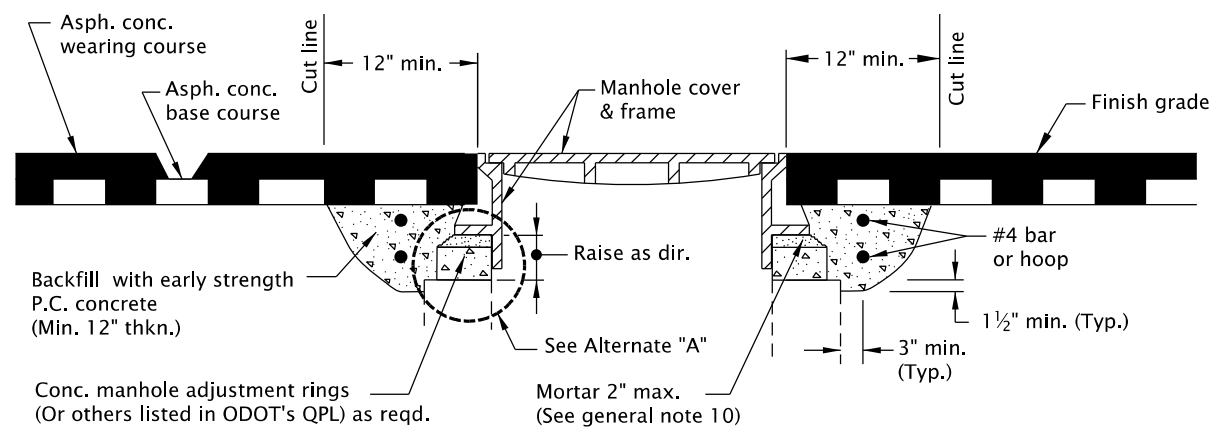
rd360.dgn 20-JUL-2020



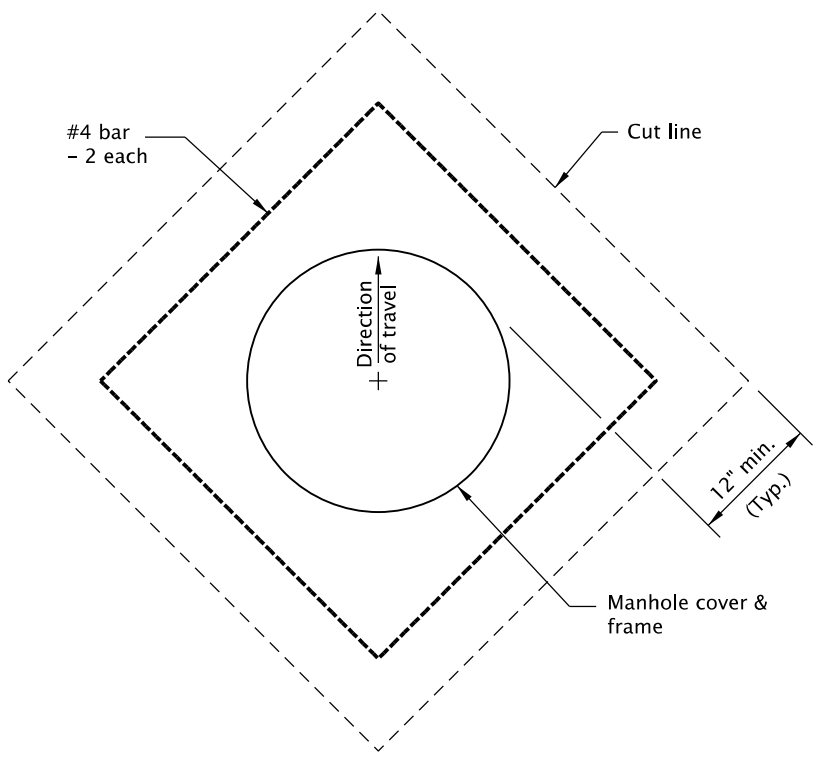
**METHOD "A"**



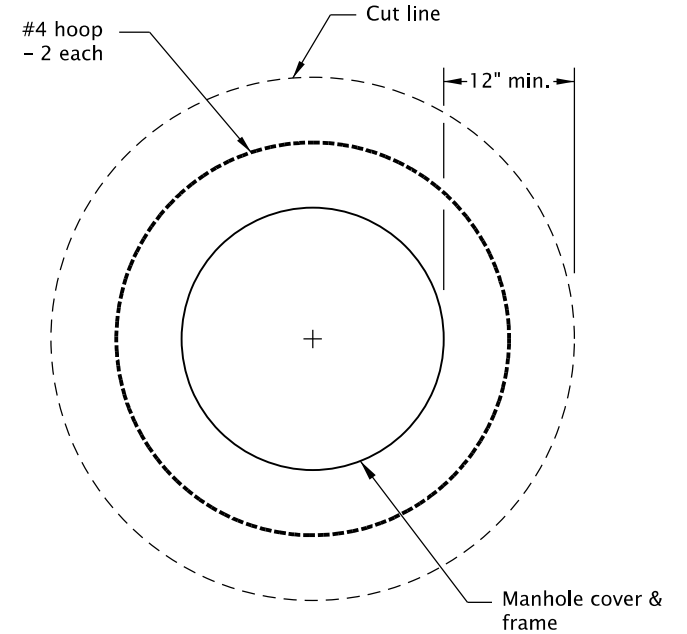
**METHOD "B"**



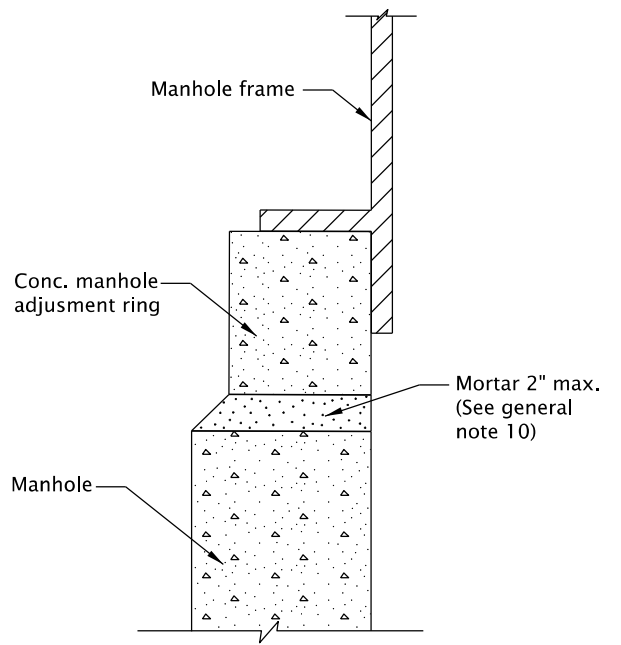
**METHOD "C"**



**PLAN SQUARE CUT**



**PLAN CIRCULAR CUT**



**ALTERNATE "A"**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Cover manhole with building paper and const. asph. conc. base course and wearing courses.
2. Saw cut square or circular excavation around manhole 12" min. from manhole frame.
3. Raise manhole cover and frame to finish grade by installing conc. manhole adjustment rings and leveling mortar, as shown.
4. Backfill with early strength Portland Cement Concrete. All concrete shall be commercial grade concrete.
5. Protect from traffic loading until conc. has cured to 3000 psi.
6. Apply tack coat to edges of existing pavement before installing patch.
7. Finish joint with asphalt seal and sand.
8. See Std. Dwg. RD336 for manhole steps details.
9. See appropriate manhole standard drawings for details not shown.
10. Use epoxy for synthetic grade rings.
11. See Std. Dwg. RD336 for tracer wire details.
12. See Std. Dwg. RD356 for manhole covers and frames.

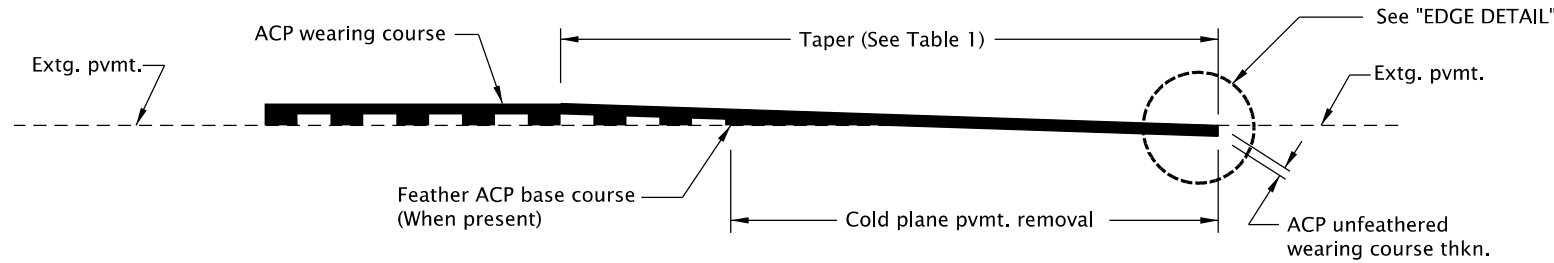
CALC. BOOK NO. <u>  N/A  </u>	SDR DATE <u>  21-JUL-2015  </u>
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NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

OREGON STANDARD DRAWINGS	
MANHOLE FRAME ADJUSTMENT	
2021	
DATE	REVISION DESCRIPTION

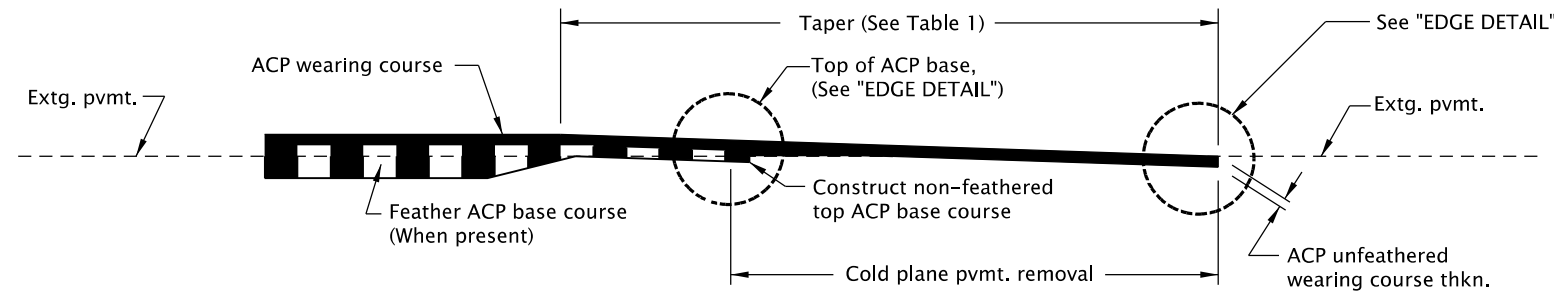
rd610.dgn 20-JUL-2020



**METHOD A \***

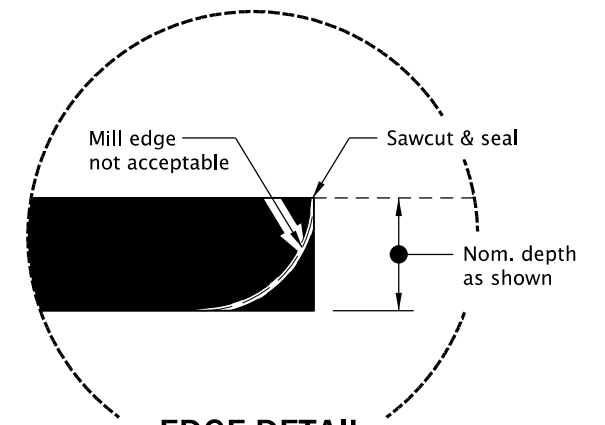
\* See project plans for method.

TABLE 1 TAPER LENGTHS	
Posted Speed	Taper Length
< 45 mph	1" per 50'
≥ 45 mph	1" per 100'

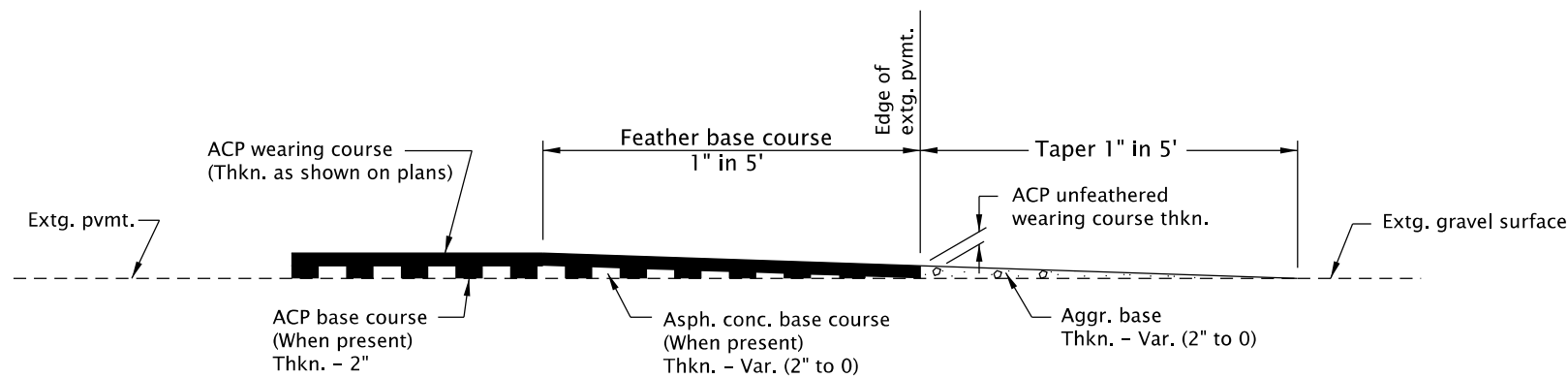


**METHOD B \***

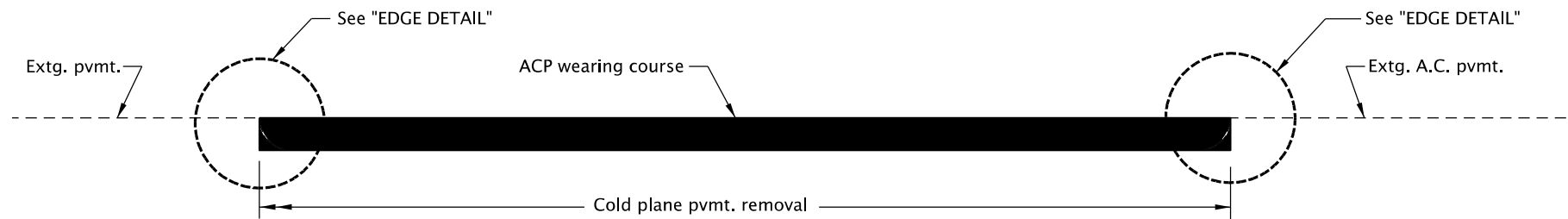
**ACP PAVEMENT MATCH AT PROJECT ENDS  
OR BRIDGE ENDS WHEN NOT OVERLAYING THE BRIDGE**



**EDGE DETAIL**



**METHOD OF FEATHERING ACP PAVEMENT  
AT GRAVEL APPROACHES**



**METHOD OF MATCHING EXTG. ACP INLAY SURFACING**  
(Inlay to extg. asphalt conc. pvmt.)

CALC. BOOK NO. N/A

SDR DATE 25-JUL-2017

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS  
ASPHALT CONCRETE  
PAVEMENT (ACP)  
DETAILS**

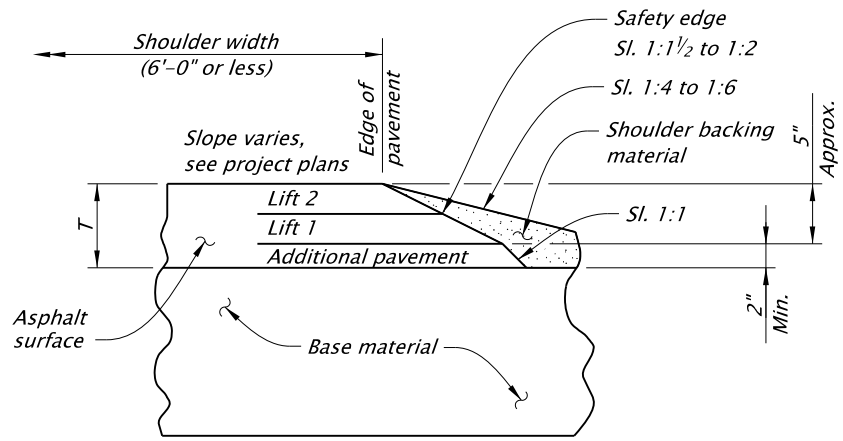
2021

DATE	REVISION DESCRIPTION

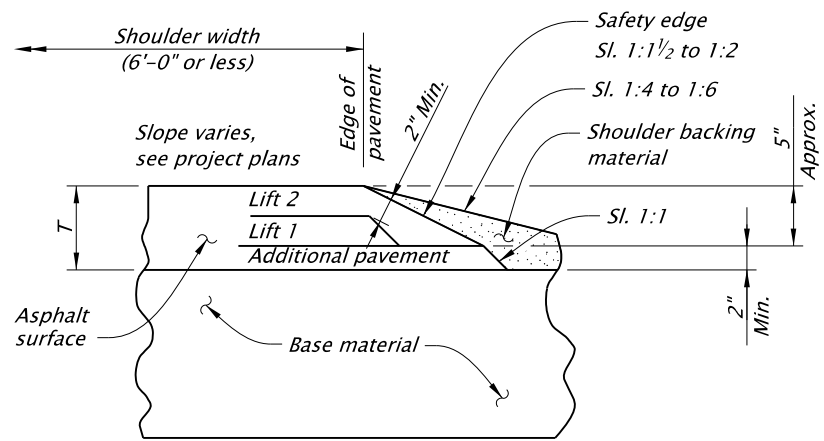
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*



rd615.dgn 19-JUL-2021

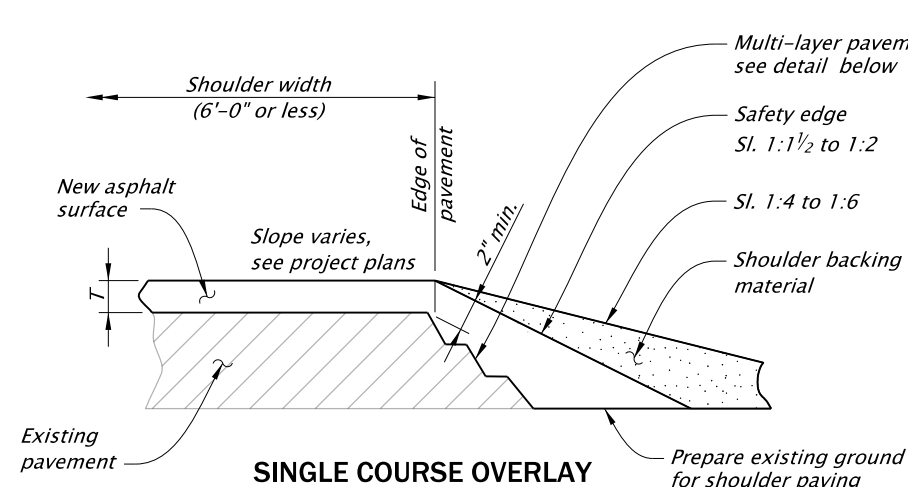


**SAFETY EDGE PLACED WITH LIFTS**

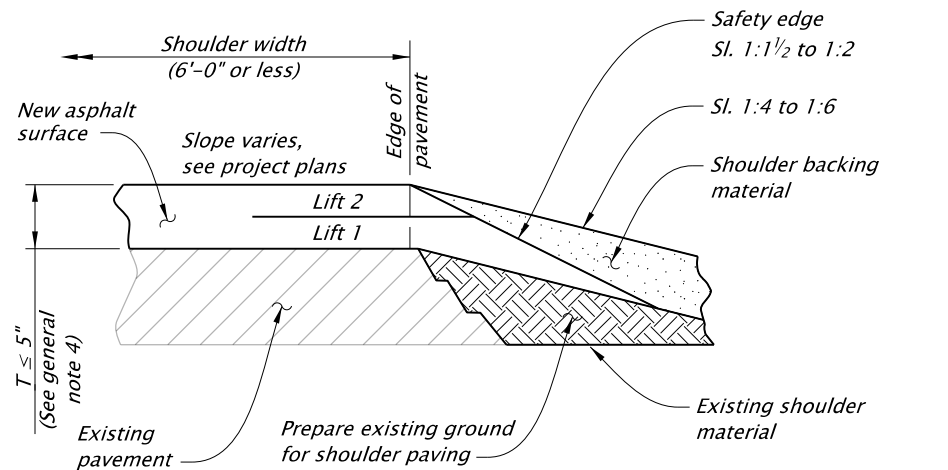


**SAFETY EDGE PLACED ONLY WITH FINAL LIFT**

**SAFETY EDGE FOR ASPHALT CONCRETE (NEW CONSTRUCTION)**

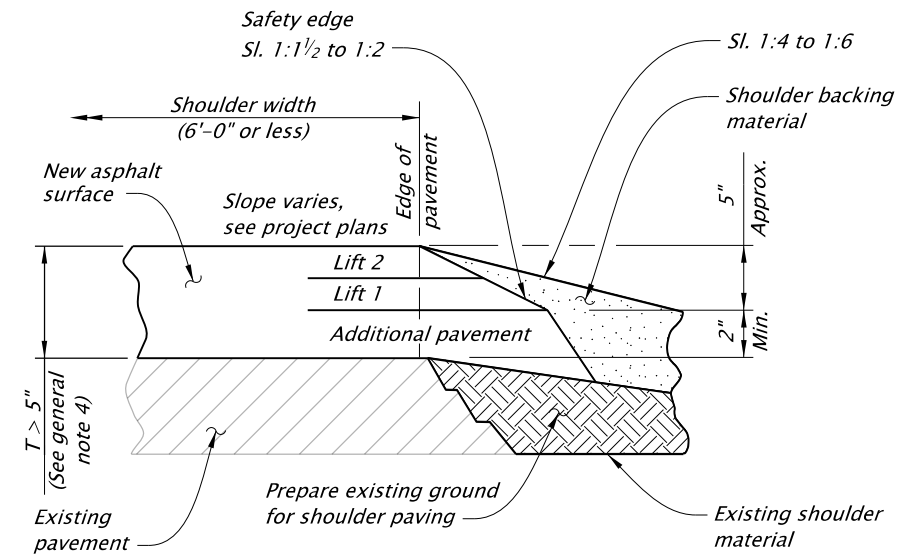


**SINGLE COURSE OVERLAY**



**PAVEMENT THICKNESS (T) 5" OR LESS**

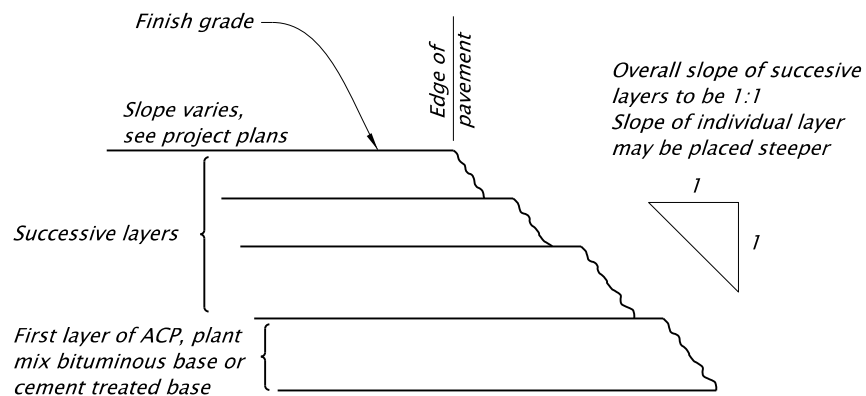
**SAFETY EDGE FOR ASPHALT CONCRETE RECONSTRUCTION (INCLUDING MILL, INLAY AND OVERLAY)**



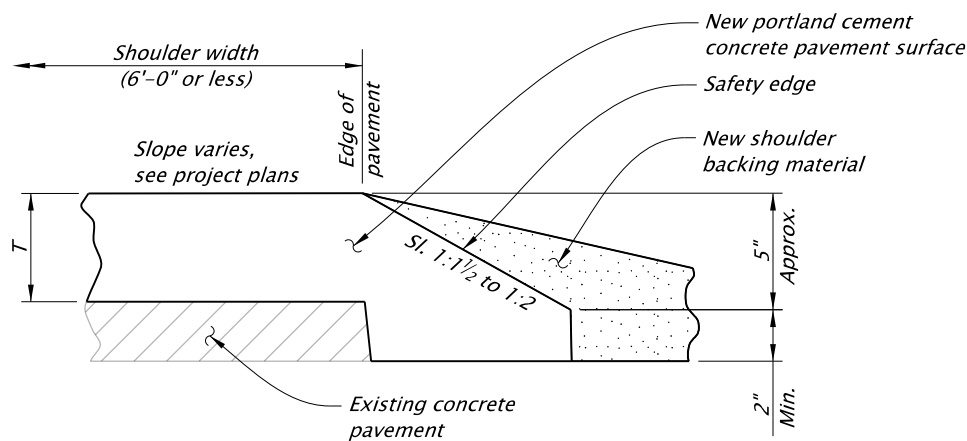
**PAVEMENT THICKNESS (T) GREATER THAN 5"**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Safety edges are required at the outside edges of the paved roadway (edge of travel lane or edge of paved shoulders), where the wearing surface thickness is 2" or greater, except where indicated in the plans.
2. Construct the safety edge at a slope of 1:1 1/2 to 1:2 measured from the pavement surface.
3. Do not construct safety edge at intersections, paved drives, or other obstructions.
4. For total new asphalt depth of "T" ≤ 5", construct the safety edge to the full thickness of the surface and intermediate courses. For total new asphalt depth of "T" > 5", construct the safety edge to a depth of 5" approximately with a 1:1 sloped face below the safety edge.



**MULTI-LAYER PAVEMENT CONSTRUCTION**



**SAFETY EDGE FOR PORTLAND CEMENT CONCRETE PAVEMENT OVERLAY**

CALC. BOOK NO.          N/A          SDR DATE          19-JUL-2021         

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

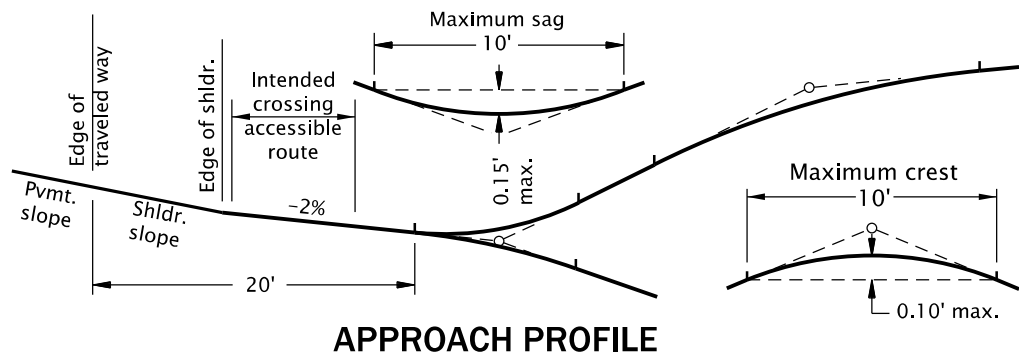
**SURFACE EDGE DETAILS**

2021

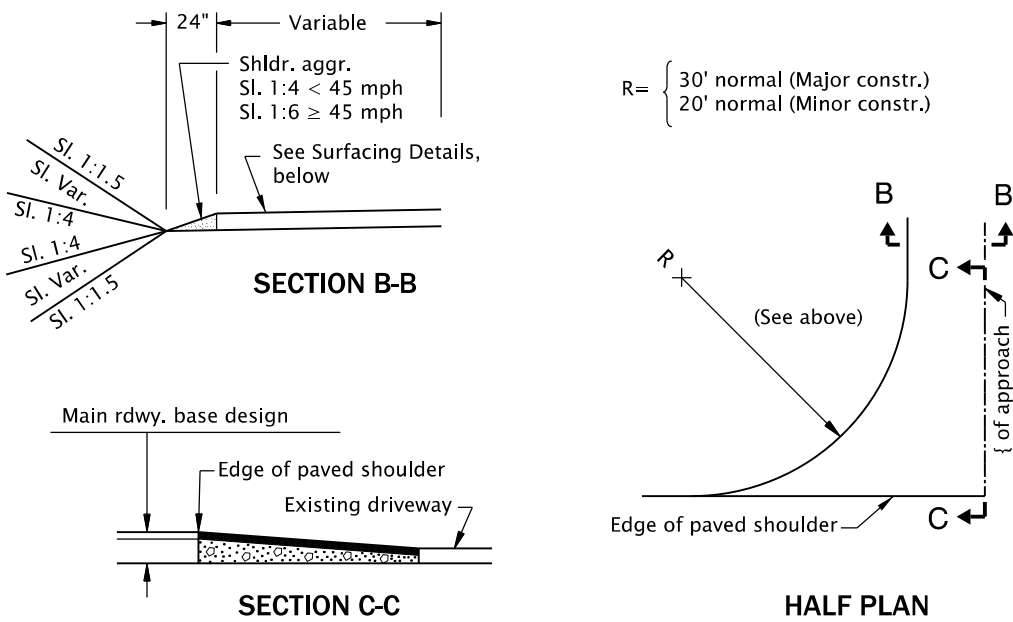
DATE	REVISION DESCRIPTION
07-2021	TITLE CHANGED, REVISED DETAILS & NOTES

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

rd715.dgn 20-JUL-2020



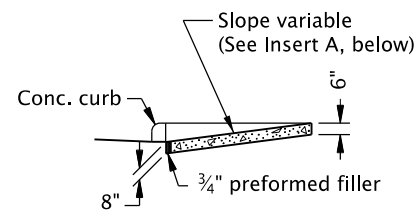
**NOTE:**  
When grades on approaches meet without vertical curves the maximum algebraic difference on crests should be 8% and on sags 12%. Grades steeper than 15% should not be used without prior approval of the engineer of record. Any driveways with slopes exceeding 12% shall be paved.



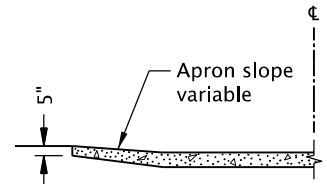
**NOTE:**  
Normal paving limits to extend 20' (30' for public road connections) from the edge of pavement or to the right of way line, whichever is less. Approach surfacing and width to then match existing approach.

**APPROACH**

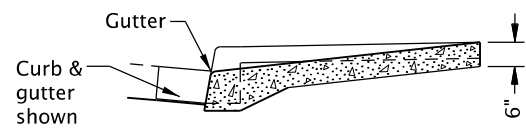
**TYPE A PORTLAND CEMENT CONCRETE**



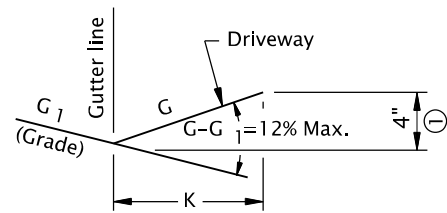
**SECTION D-D**



**SECTION E-E**



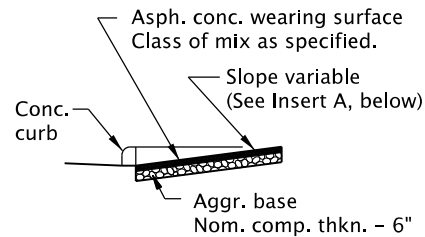
**SECTION A-A FOR MONOLITHIC DRIVEWAYS**



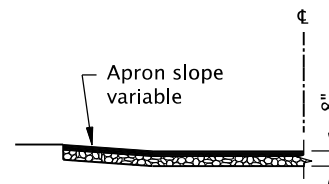
**INSERT A**

① Minimum allowable for drainage control on negatively sloped driveways.

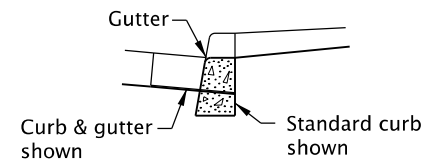
**TYPE A-1 ASPHALT CONCRETE**



**SECTION D-D**



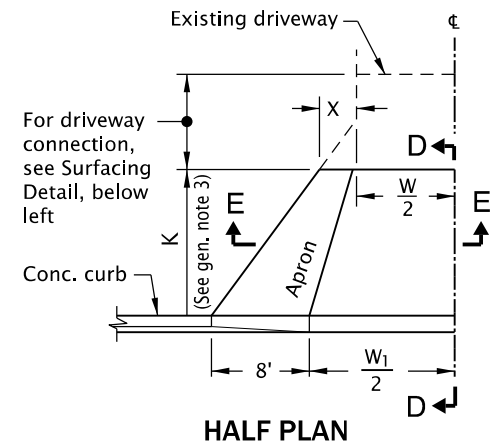
**SECTION E-E**



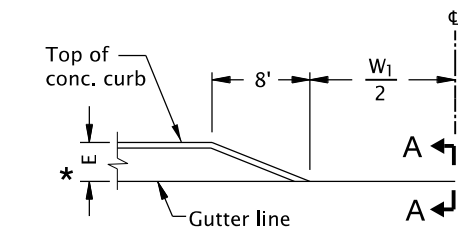
**SECTION A-A FOR DRIVEWAYS**

**NON-SIDEWALK DRIVEWAYS**

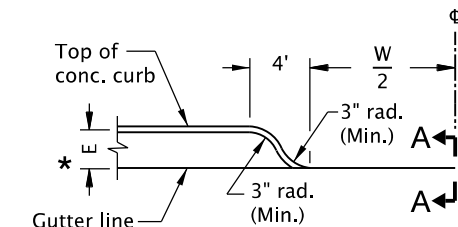
**NOTE:** This driveway type shall not be used along a pedestrian route. See "Table A" for dimensions not shown.



**HALF PLAN**



**HALF ELEVATION**



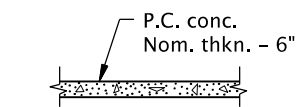
**HALF ELEVATION (ALTERNATE APRON SLOPE)**  
(See General Note 5)

\* Curb exposure E = 7" normal. Vary as shown on plans or as directed.

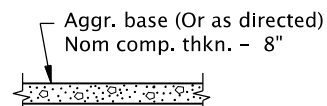
**TABLE A**

W (ft)	X (ft)	K (ft)			
		5	6	8	10
12	3	15	15	15	15
14		17	17	17	17
16		19	19	19	19
18		21	21	21	21
20		23	23	23	23
22	4	27	28	29	30
24		29	30	31	32
26		31	32	33	34
28		33	34	35	36
30		35	36	37	38
32		5	41	42	44
34	43		44	46	48
36	45		46	48	50

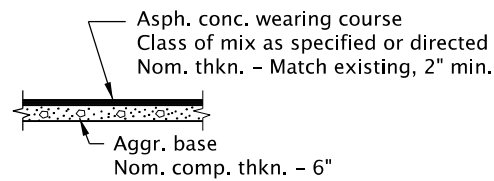
Where a travel lane is constructed adjacent to the curb line, use 16' W min. for residence and 30' W min. for light commercial, add 5' to W<sub>1</sub> for both. Do not add the 5' to W<sub>1</sub> when 4' min. shldr. or bikeway is included in the typical.



**P.C. CONCRETE SURFACING**



**GRAVEL SURFACING**



**ASPHALT CONCRETE SURFACING**

**APPROACH AND DRIVEWAY CONNECTION SURFACING DETAILS**

**GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:**

1. Driveway details shown on this drawing are to be used on roadways where there are no existing or planned sidewalks in driveway vicinity. For driveways located in a sidewalk see Std. Dwg. RD720, RD721, RD725 and/or RD730, RD735, RD740, RD745, RD750.
2. Width of driveway (W) as shown on plans or as directed.
3. K is the distance from back of curb to back of driveway (10' max.).
4. Where existing driveway is in good condition, construct only as much as required for satisfactory connection with new work.
5. "Alternate Apron Slope" used only where plans designate. Alternate Apron Slope may also be used at local jurisdiction's request when approved by the Project Manager.
6. Increase thickness of asphalt concrete and stone base where shown on plans.
7. For curb details, see Std. Dwg. RD700 & RD701.
8. For expansion and contraction joint requirements, see applicable curb and sidewalk standard drawings.

CALC. BOOK NO. N/A

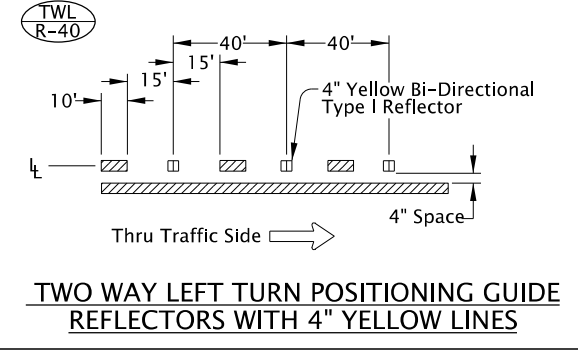
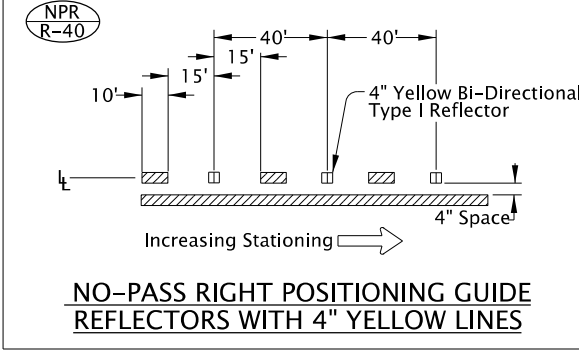
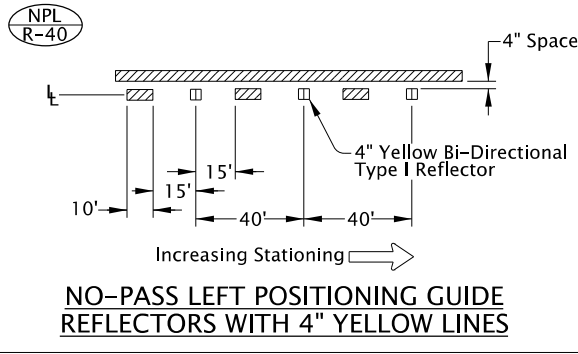
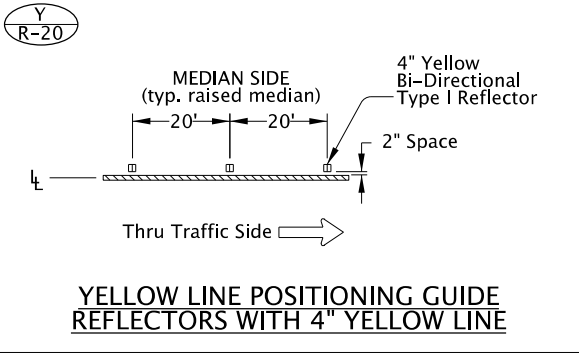
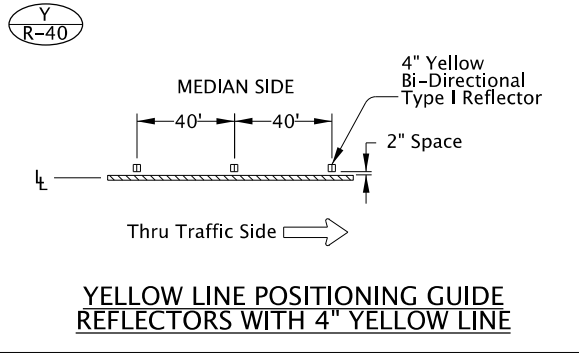
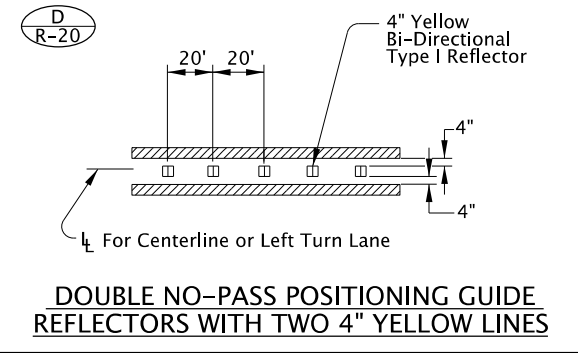
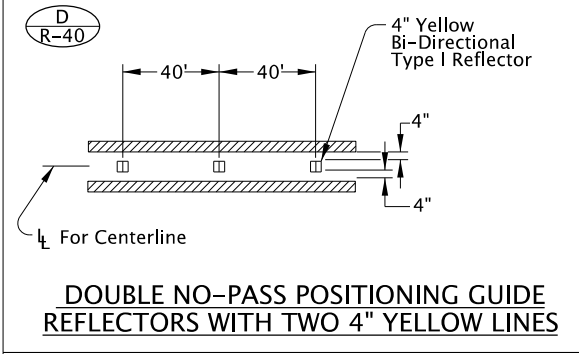
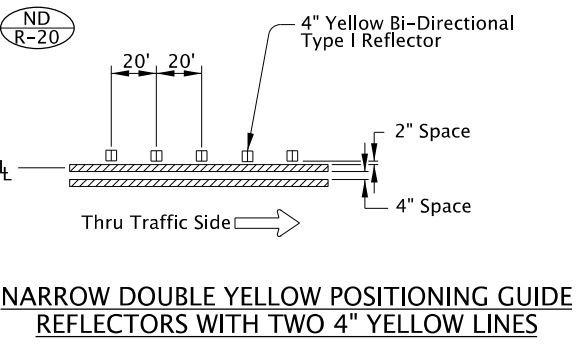
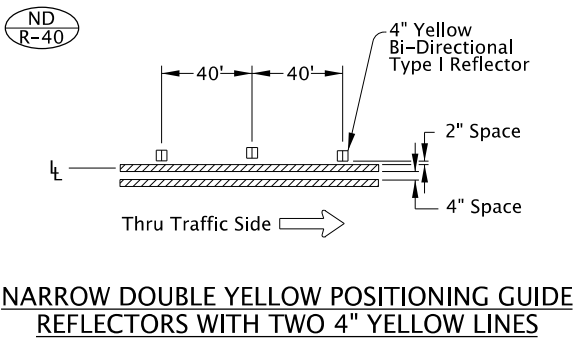
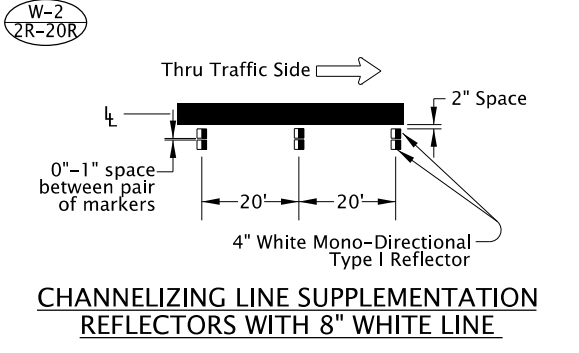
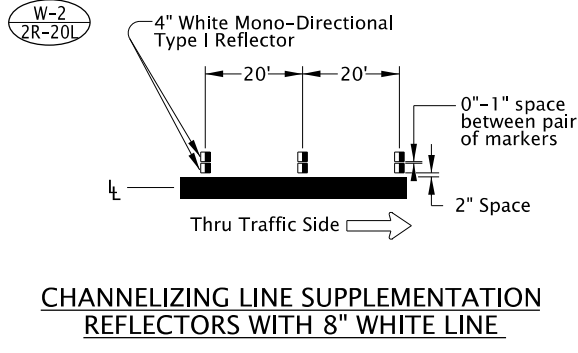
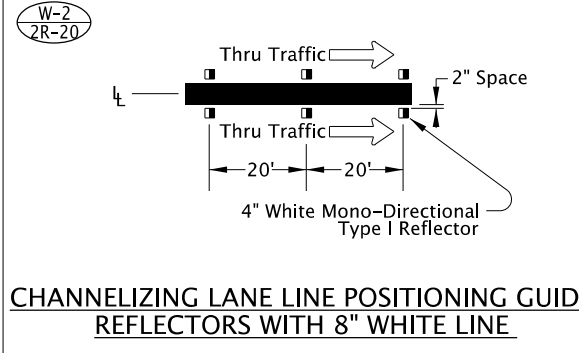
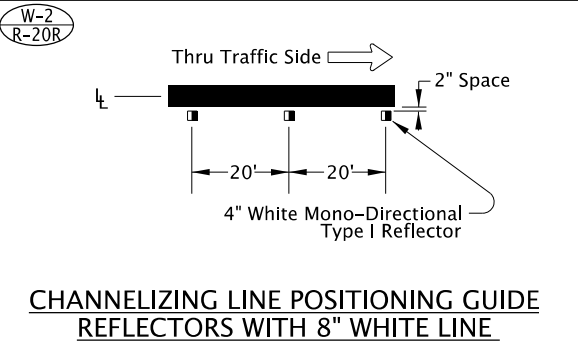
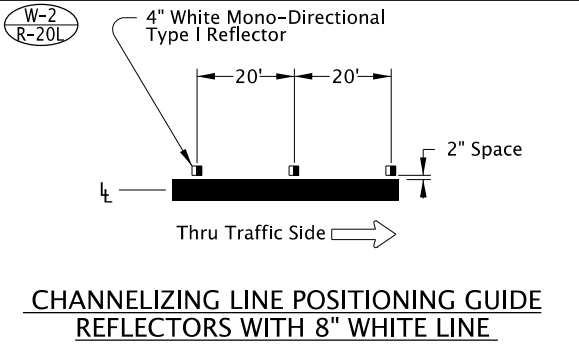
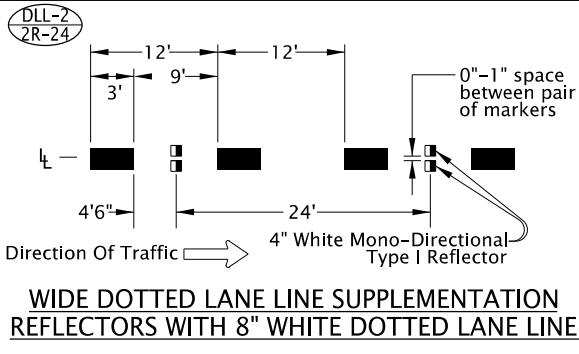
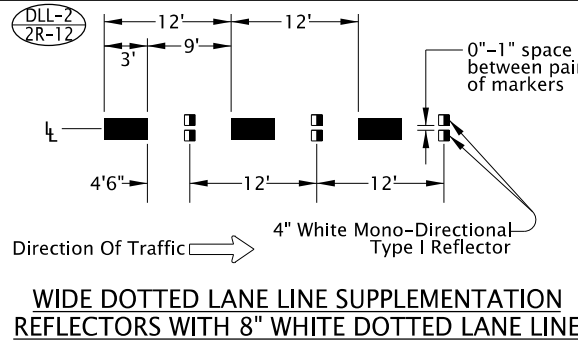
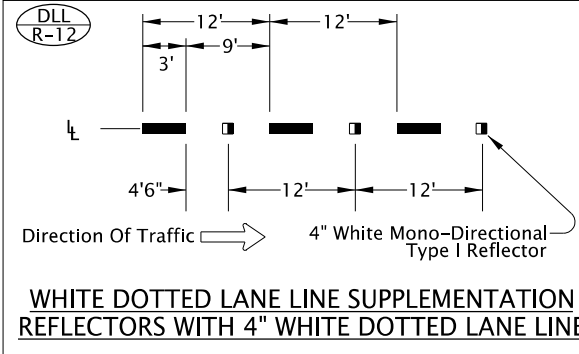
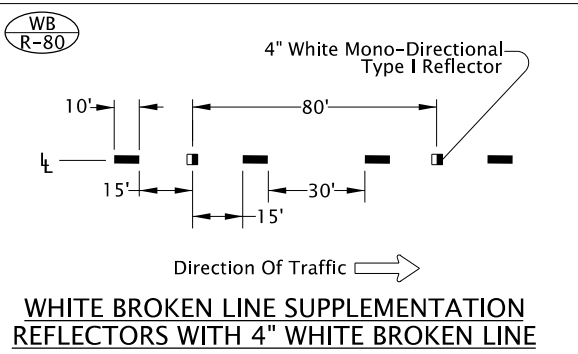
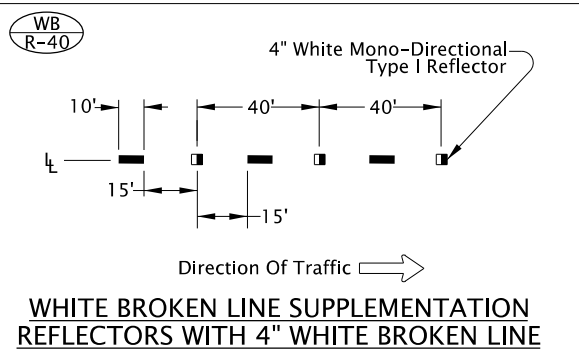
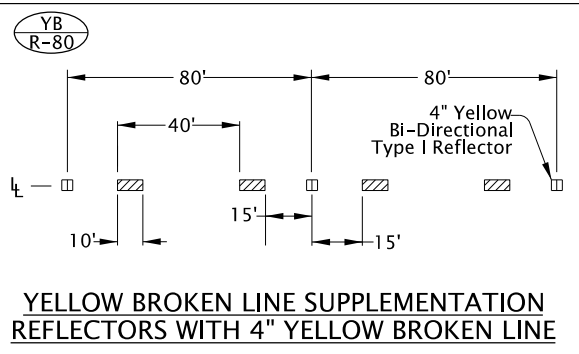
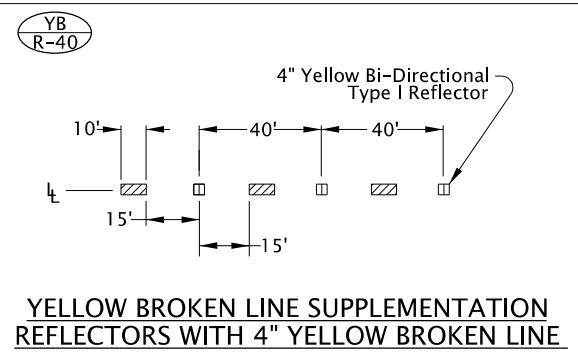
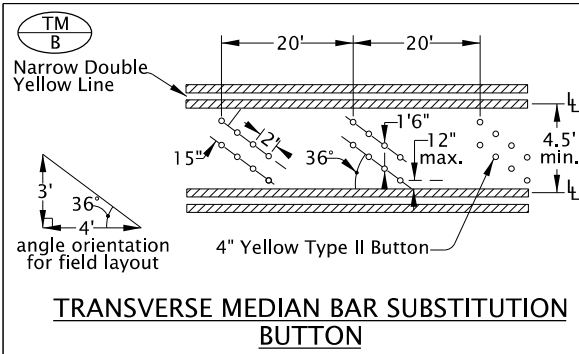
SDR DATE 21-JUN-2019

**NOTE:** All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**  
**APPROACHES AND NON-SIDEWALK DRIVEWAYS**

2021

DATE	REVISION DESCRIPTION



General note:  
1) Surface mount Raised Pavement Markers (RPMs) unless otherwise specified.

- LEGEND**
- ← Direction Of Travel, Increasing Stationing or Thru Traffic Side
  - ⊥ Lane line dimensions are shown on the striping plans
  - Mono-directional crystal white marker reflects white to the left in this symbol
  - Bi-directional yellow marker reflects yellow both left and right in this symbol

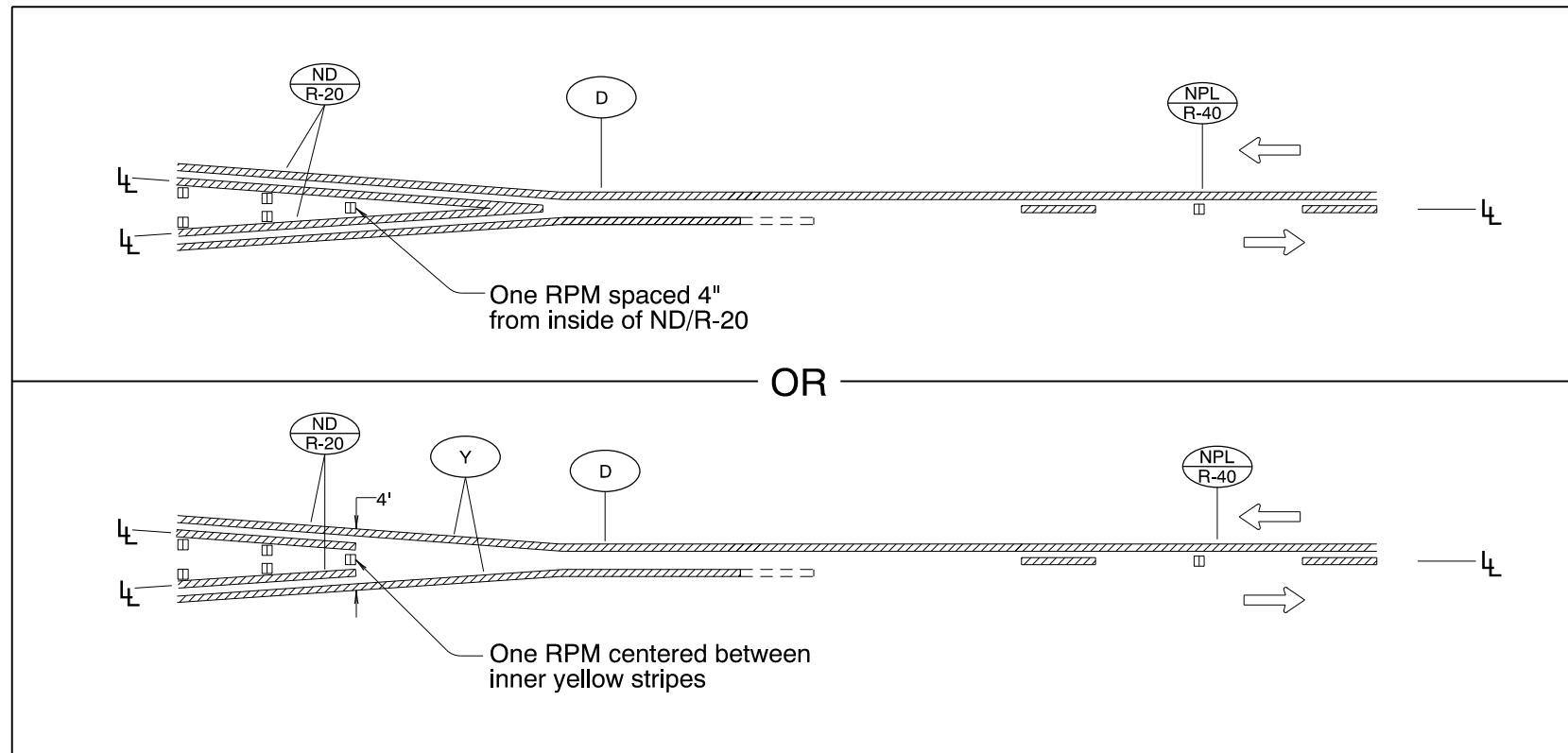
CALC. BOOK NO. \_\_\_ N/A \_\_\_

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

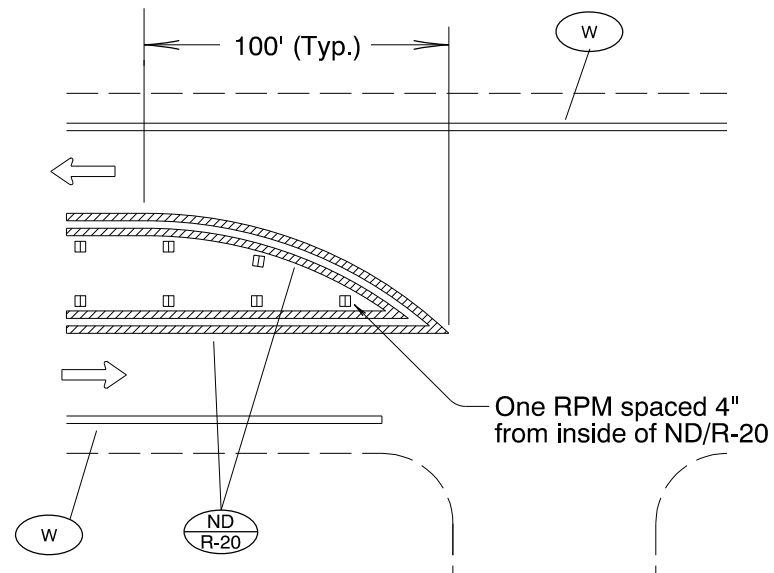
SDR DATE		___01/03/2022___	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications.			
<b>OREGON STANDARD DRAWINGS</b>			
<b>PAVEMENT MARKING</b>			
<b>STANDARD DETAIL BLOCKS</b>			
2021			
DATE	REVISION DESCRIPTION		
07/2020	Changed min. width of TM/B from 6' to 4.5'		
01/2022	Removed 'LANE' from W-2/R-20R title		

TM502

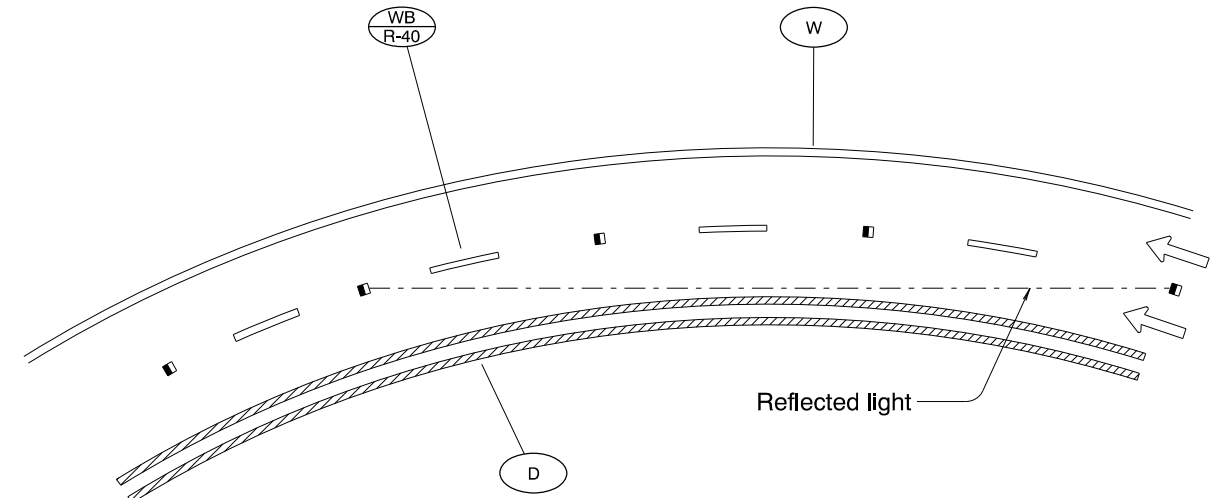
TM515.dgn 7-01-2015



**MEDIAN WIDTH TRANSITION**  
(TWO NARROW DOUBLE YELLOW LINES TO ONE-DIRECTION NO-PASSING LINE)  
(Refer to TM539 for additional details)

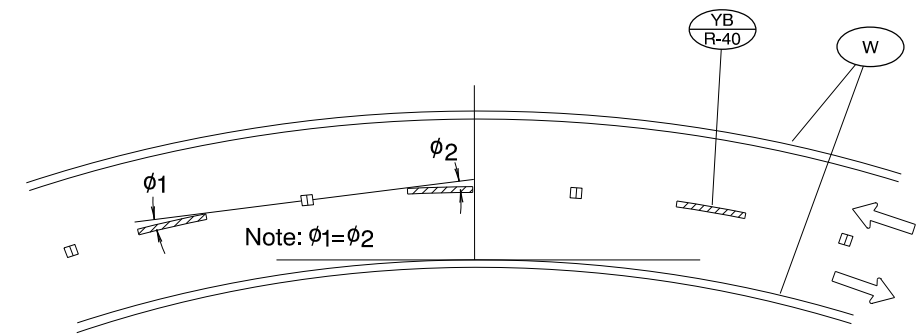


**MEDIAN BULLNOSE DETAIL**



**NOTE:**  
On one way sections the marker shall be installed with the reflective surface aimed to direct the reflected light back three markers.

(a) PAVEMENT MARKER INSTALLATION FOR MONO-DIRECTIONAL RAISED PAVEMENT MARKERS



(b) PAVEMENT MARKER INSTALLATION FOR BI-DIRECTIONAL RAISED PAVEMENT MARKERS

**PAVEMENT MARKER INSTALLATION ON HORIZONTAL CURVES**

- LEGEND**
- Mono-Directional White (marker reflects white to left in this symbol)
  - Bi-Directional Yellow (marker reflects yellow to both the left and right in this symbol)
- Increasing stationing from left to right
- ← Direction of Travel
- ⊥ Lane line dimensions are shown on the striping plans.

To be accompanied by Standard Dwg. Nos. TM500 thru TM504

CALC. BOOK NO. <u>N/A</u>	SDR DATE <u>July 1, 2015</u>
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>PAVEMENT MARKERS</b>	
2021	
DATE	REVISION DESCRIPTION

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

TM515

tm800.dgn 01-JUL-2022

00800

TAPER TYPES & FORMULAS	
TAPER	FORMULA
Merging (Lane Closure)	"L"
Shifting	"L"/2 or 1/2"L"
Shoulder Closure	"L"/3 or 1/3"L"
Flagging (See Drg. TM850)	50' - 100'
Downstream (Termination)	Varies (See Drawings)

★ Use Pre-Construction Posted Speed to select the Speed from the Tables below:

TEMPORARY BARRIER FLARE RATE TABLE	
★ SPEED (mph)	MINIMUM FLARE RATE
≤ 30	8:1
35	9:1
40	10:1
45	12:1
50	14:1
55	16:1
60	18:1
65	19:1
70	20:1

MINIMUM LENGTHS TABLE					
★ SPEED (mph)	"L" VALUE FOR TAPERS (ft)				BUFFER "B" (ft)
	W ≤ 10	W = 12	W = 14	W = 16	
25	105	125	145	165	75
30	150	180	210	240	100
35	205	245	285	325	125
40	265	320	375	430	150
45	450	540	630	720	180
50	500	600	700	800	210
55	550	660	770	880	250
60	600	720	840	960	285
65	650	780	910	1000	325
70	700	840	980	1000	365
FREEWAYS					
55	1000	1000	1000	1000	250
60	1000	1000	1000	1000	285
65	1000	1000	1000	1000	325
70	1000	1000	1000	1000	365

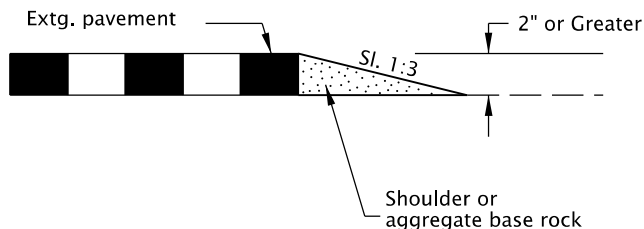
- NOTES:
- For Lane closures where W < 10', use "L" value for W = 10'.
  - For Shoulder closures where W < 10', use "L" value for W = 10' or calculate "L" using formula, for Speeds ≥ 45: L = WS, Speeds < 45: L = S<sup>2</sup>W/60, S = Speed, W=Width

TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE				
★ SPEED (mph)	Sign Spacing (ft)			Max. Channelizing Device Spacing (ft)
	A	B	C	
20 - 30	100	100	100	20
35 - 40	350	350	350	20
45 - 55	500	500	500	40
60 - 70	700	700	700	40
Freeway	1000	1500	2640	40

- NOTES:
- Place traffic control devices on 10 ft. spacing for intersection and access radii.
  - When necessary, sign spacing may be adjusted to fit site conditions. Limit spacing adjustments to 30% of the "A" dimension for all speeds.

NOTES:

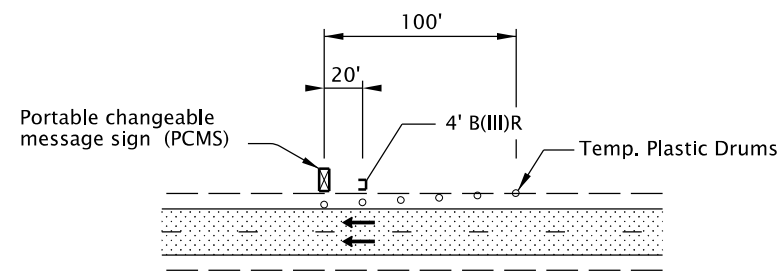
- When paved shoulders adjacent to excavations are less than four feet wide protect longitudinal abrupt edge as shown.
- Use aggregate wedge when abrupt edge is 2 inches or greater.



EXCAVATION ABRUPT EDGE

NOTES:

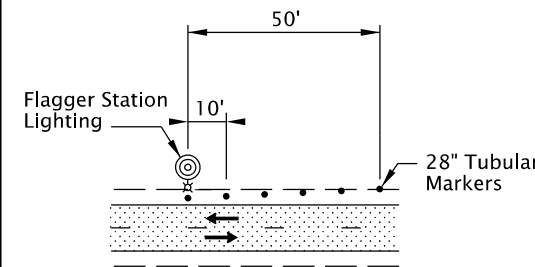
- Install PCMS beyond the outside shoulder, when possible.
- Use the appropriate type of barricade panels for PCMS location. Right shoulder, use Type B(III)R. Left shoulder, use Type B(III)L.
- Use six drums in shoulder taper on 20' spacing. The drums and barricade may be omitted when PCMS is placed behind a roadside barrier.
- Detail as shown is used for trailered and non-crashworthy components of:
  - Portable Traffic Signals
  - Smart Work Zone Systems



PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) INSTALLATION

NOTES:

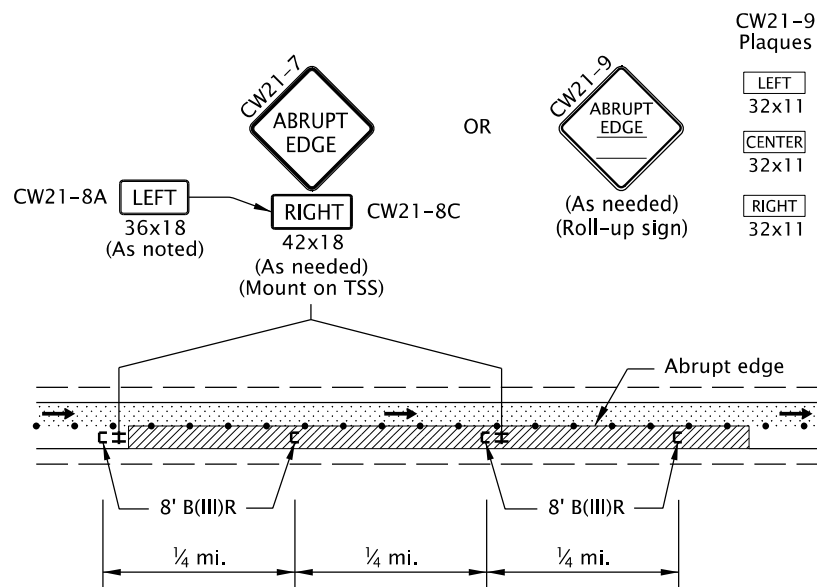
- Install Flagger Station Lighting beyond the outside shoulder, where practical.
- Use six tubular markers in shoulder taper on 10' spacing.
- Place cart / generator / power supply off of the shoulder, as far as practical.



FLAGGER STATION LIGHTING DELINEATION

NOTES:

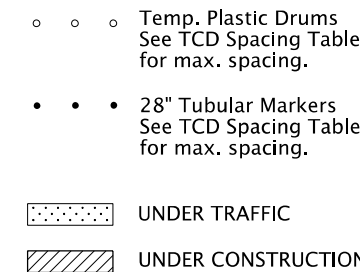
- Abrupt edges may be created by paving, operations, excavations or other roadway work. Use abrupt edge signing for longitudinal abrupt edges of 1 inch or greater.
- If the excavation is located on left side of traffic, replace the 8' B(III)R barricades with 8' B(III)L barricades and replace the "RIGHT" (CW21-8C) riders with "LEFT" (CW21-8A) riders.
- Continue signing and other traffic control devices throughout excavation area at spacings shown.
- If roll-up signs are used, attach the correct (CW21-9) plaques to the sign face using hook and loop fasteners. Place roll-up signs in advance of barricades.



TYPICAL ABRUPT EDGE DELINEATION

GENERAL NOTES FOR ALL TCP DRAWINGS:

- Signs and other Traffic Control Devices (TCD) shown are the minimum required.
- Place a barricade approx. 20' ahead of all sequential arrow boards.
- Arrows shown in roadway are directional arrows to indicate traffic movements.
- All signs are 48" x 48" unless otherwise shown. Use fluorescent orange sheeting for the background of all temporary warning signs.
- All diamond shaped warning signs mounted on barrier sign supports shall be 36" by 36". All other signs mounted on barrier sign supports shall not exceed 12 sq. ft. in total sign area.
- Low speed highways have a pre-construction posted speed of 40 mph or less. High speed highways have a pre-construction posted speed of 45 mph or higher.
- Do not locate sign supports in locations designated for bicycle or pedestrian traffic.
- Combine drawing details to complete temporary traffic control for each work activity.
- Coordinate and control pedestrian movements through a Temporary Accessible Route using Flaggers, Traffic Control Measures, or as directed.
- To be accompanied by Dwg. Nos. TM820 & TM821.



CALC. BOOK NO. \_\_\_ TM09-01 \_\_\_ SDR DATE \_\_\_ 01-JUL-2022 \_\_\_

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

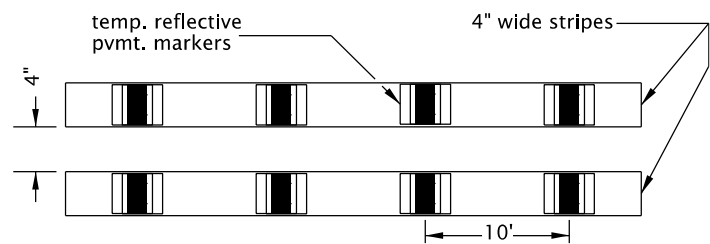
**OREGON STANDARD DRAWINGS**  
**TABLES, ABRUPT EDGE AND PCMS DETAILS**

2021

DATE	REVISION DESCRIPTION
07/01/22	Added a note for TPARs.

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

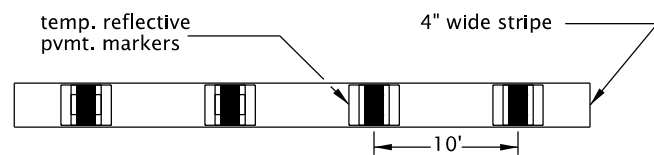
tm810.dgn 01-JUL-2020



**LAYOUT "A"**  
(Supplemented double solid lines)

TYPICAL APPLICATIONS:

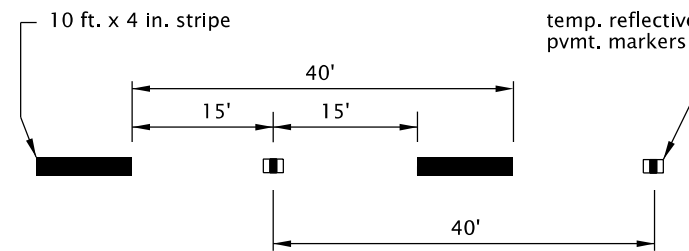
- To prohibit lane changes or passing (include appropriate regulatory signs).
- Freeway or multilane shifts and crossovers.
- For projects in place through winter months.
- Two-lane, two-way centerlines.



**LAYOUT "B"**  
(Supplemented solid line)

TYPICAL APPLICATIONS:

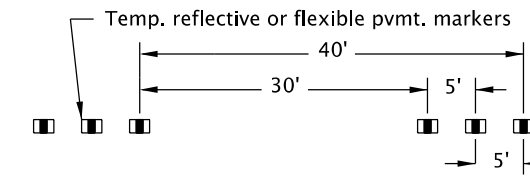
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- For projects in place through winter months.



**LAYOUT "C"**  
(Supplemented broken lines)

TYPICAL APPLICATIONS:

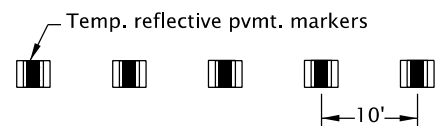
- Freeway and multilane broken lines.
- High ADT 2 lane roads (greater than 10,000).
- For projects in place through winter months.



**LAYOUT "D"**  
(Simulated broken lines)

TYPICAL APPLICATIONS:

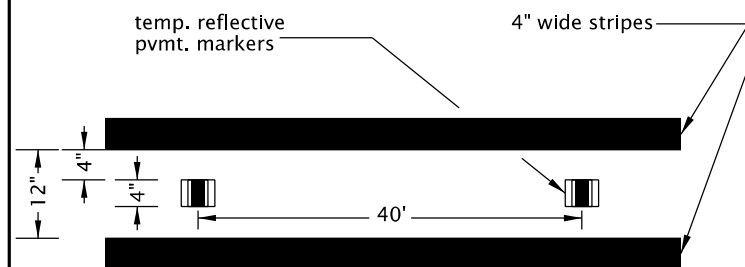
- During staging on finished/existing surfaces.
- HMAC intermediate surfaces.
- Emulsified asphalt surface treatments (chip seals) where permanent pavement markings cannot be placed within two weeks.



**LAYOUT "E"**  
(Simulated Solid Lines)

TYPICAL APPLICATIONS:

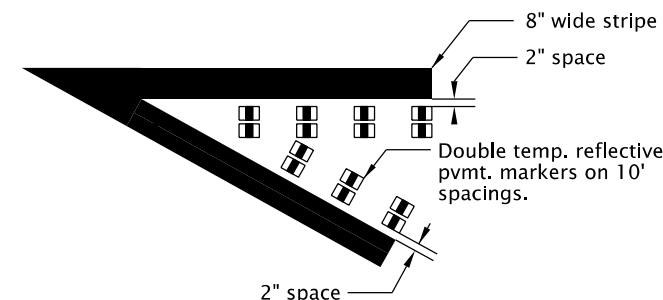
- Alignment shifts or crossovers.
- To discourage lane changes in multilane sections.
- Edge lines for short durations, less than 14 days.



**LAYOUT "F"**  
(Supplemented wide double solid lines)

TYPICAL APPLICATIONS:

- To prohibit lane changes or passing (include appropriate regulatory signs).
- 2 lane, 2 way centerlines.
- 2 lane, 1 way alignments on freeways or multi-lane highways.



**LAYOUT "G"**  
(Supplemented solid 8" line)

TYPICAL APPLICATIONS:

- Gore areas
- Alignment splits (bifurcations)

GENERAL NOTES FOR ALL DETAILS:

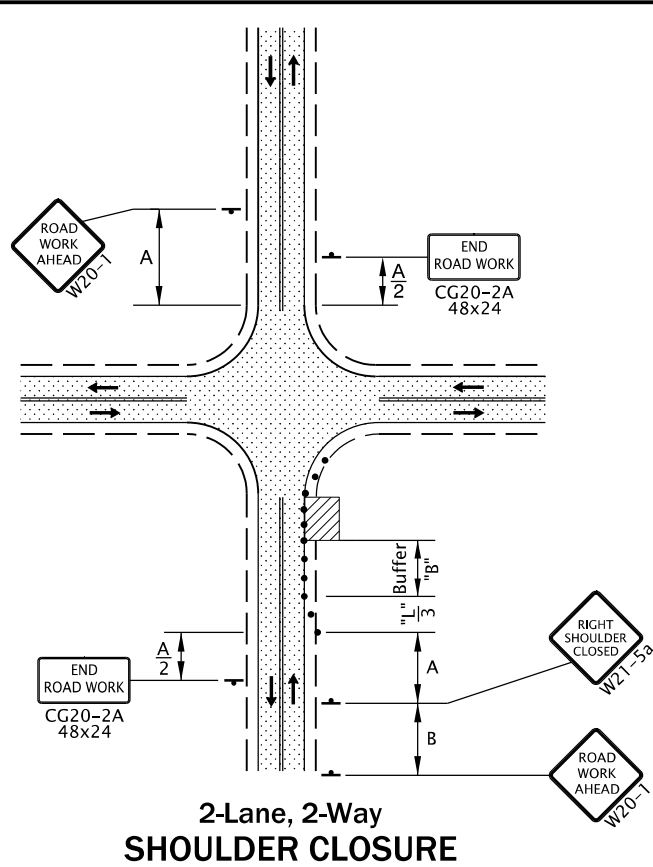
- When using Supplemented or Simulated lines:
  1. Yellow Bi-Directional Pavement Markers are required for Two-Way Traffic.
  2. White Mono-Directional Pavement Markers are required for one-way traffic or edge lines.
- Supplemented lines are painted lines enhanced with Reflective Pavement Markers.
- Simulated lines are Reflective Pavement Markers placed in a pattern to substitute for a painted line.
- Pavement marking colors shall conform to the MUTCD.

CALC. BOOK NO. _____ N/A _____	SDR DATE _____ 01-JUL-2020 _____
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
<b>OREGON STANDARD DRAWINGS</b>	
<b>TEMPORARY PAVEMENT MARKINGS</b>	
2021	
DATE	REVISION DESCRIPTION

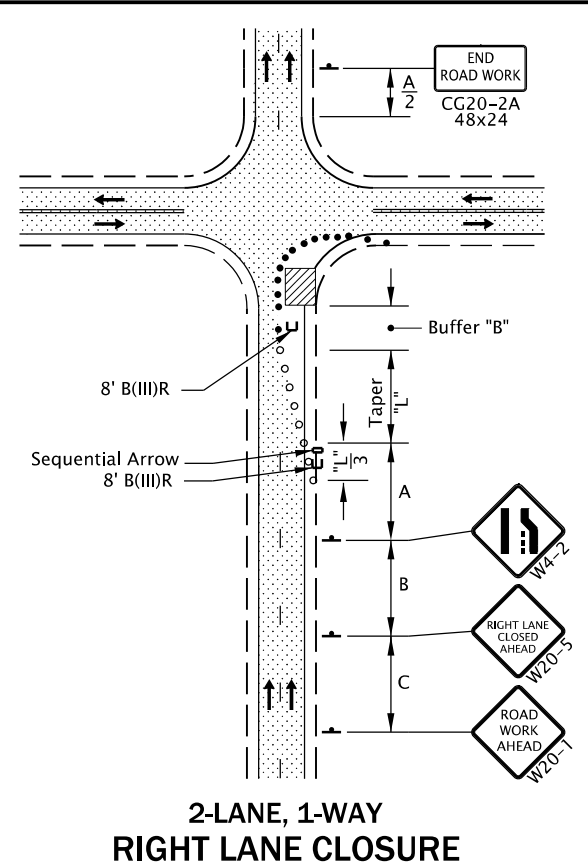
*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

TM810

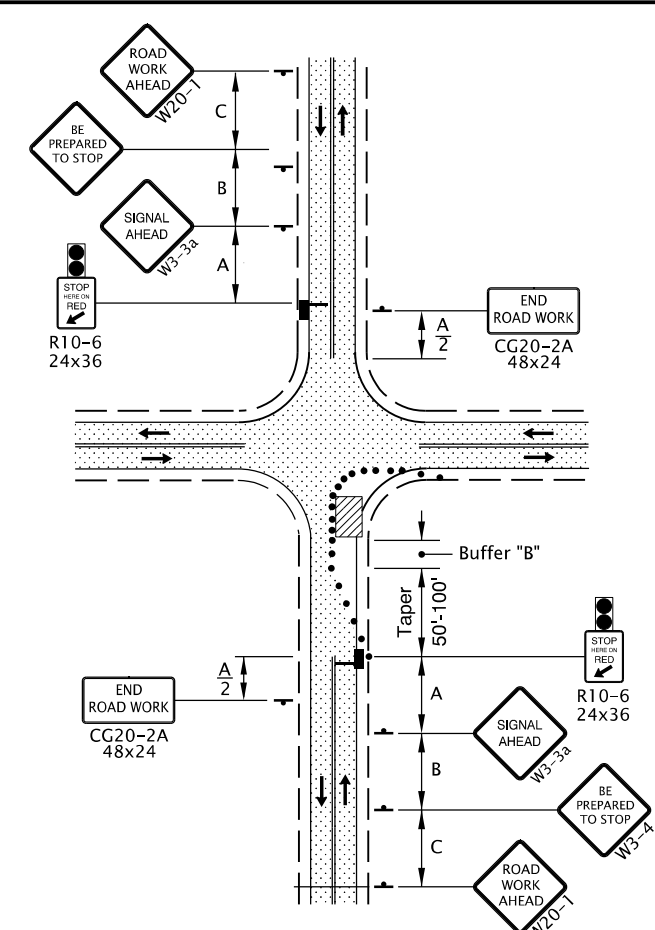
tm841.dgn 01-JUL-2022



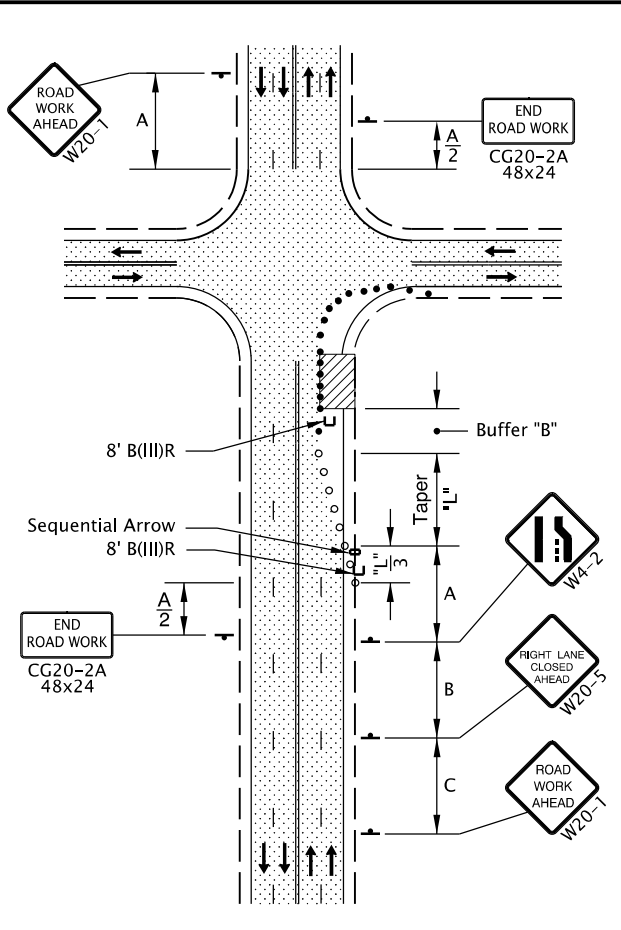
**2-Lane, 2-Way SHOULDER CLOSURE**



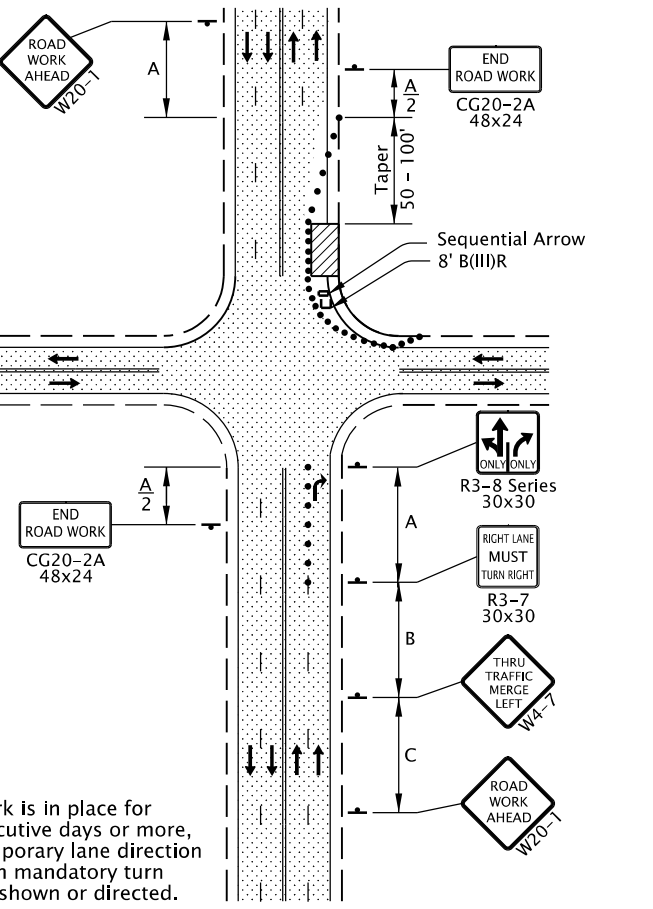
**2-LANE, 1-WAY RIGHT LANE CLOSURE**



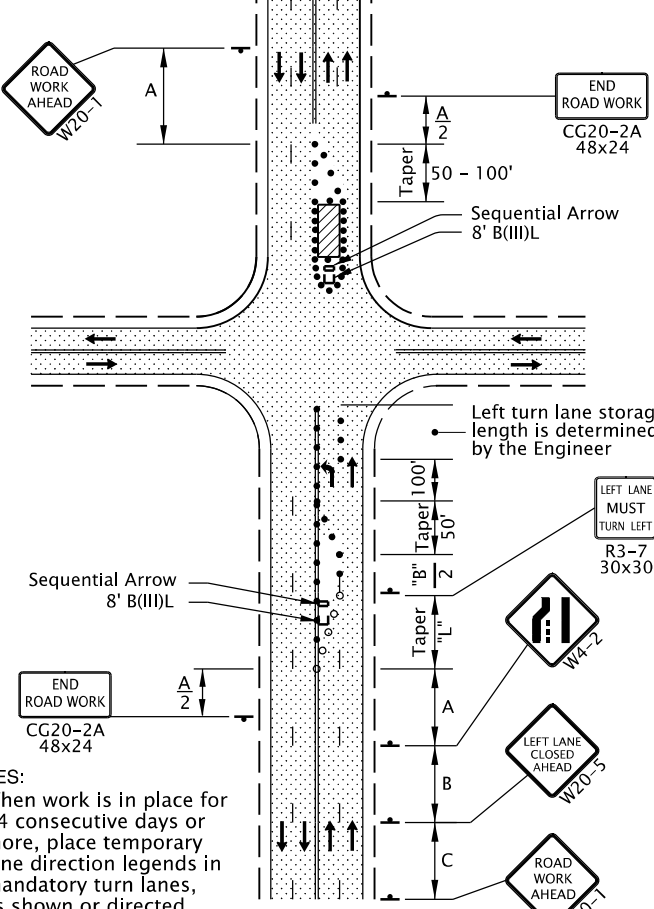
**2-Lane, 2-Way ONE LANE CLOSURE**



**4-Lane, 2-Way RIGHT LANE CLOSURE, NEAR SIDE**



**4-Lane, 2-Way RIGHT LANE CLOSURE, FAR SIDE**



**4-Lane, 2-Way LEFT LANE CLOSURE, FAR SIDE**

**NOTES:**

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

**NOTES:**

- When work is in place for 14 consecutive days or more, place temporary lane direction legends in mandatory turn lanes, as shown or directed.

**GENERAL NOTES FOR ALL DETAILS:**

- Additional Traffic Control Measures (TCM) may be required for all legs of the intersection.
- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the signal ahead symbol (W3-3) sign.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" on Dwg. TM800.
- For left lane or shoulder work, place TCD to close left lane or shoulder. Use "LEFT LANE CLOSED AHEAD" (W20-5) sign, "LEFT LANE ENDS" (W4-2L) symbol sign, or "LEFT SHOULDER CLOSED" (W21-5a) sign, where applicable.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. TM800.
- When a through road intersects within the work zone, place a "ROAD WORK AHEAD" (W20-1) sign in advance of the intersection at sign spacing A.
- Tubular markers may be used in lane closure tapers where posted speed is 40 mph or less.
- Where shoulder width is limited, Sequential Arrow may be placed within the lane closure taper.
- Place channellizing devices around intersection radii, business accesses and driveways at 10' spacing.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- To be accompanied by Dwg. Nos. TM820, TM821 TM840 & TM854.

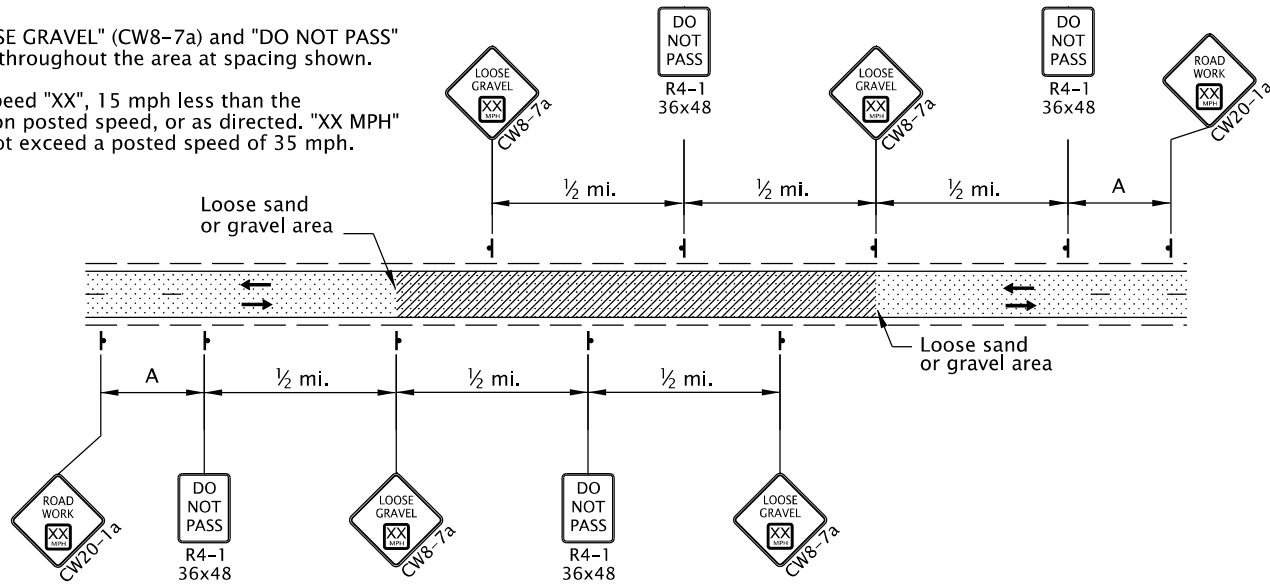
- Automated Flagging Assistance Device (AFAD)
- 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- Temp. Plastic Drums See TCD Spacing Table on TM800 for max. spacing.
- UNDER TRAFFIC
- UNDER CONSTRUCTION

CALC. BOOK NO. _____ N/A _____		SDR DATE _____ 01-JUL-2022 _____	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
<b>OREGON STANDARD DRAWINGS</b>			
<b>INTERSECTION WORK ZONE DETAILS</b>			
2021			
DATE	REVISION	DESCRIPTION	
07/01/22		Added AFADs to the drawing.	

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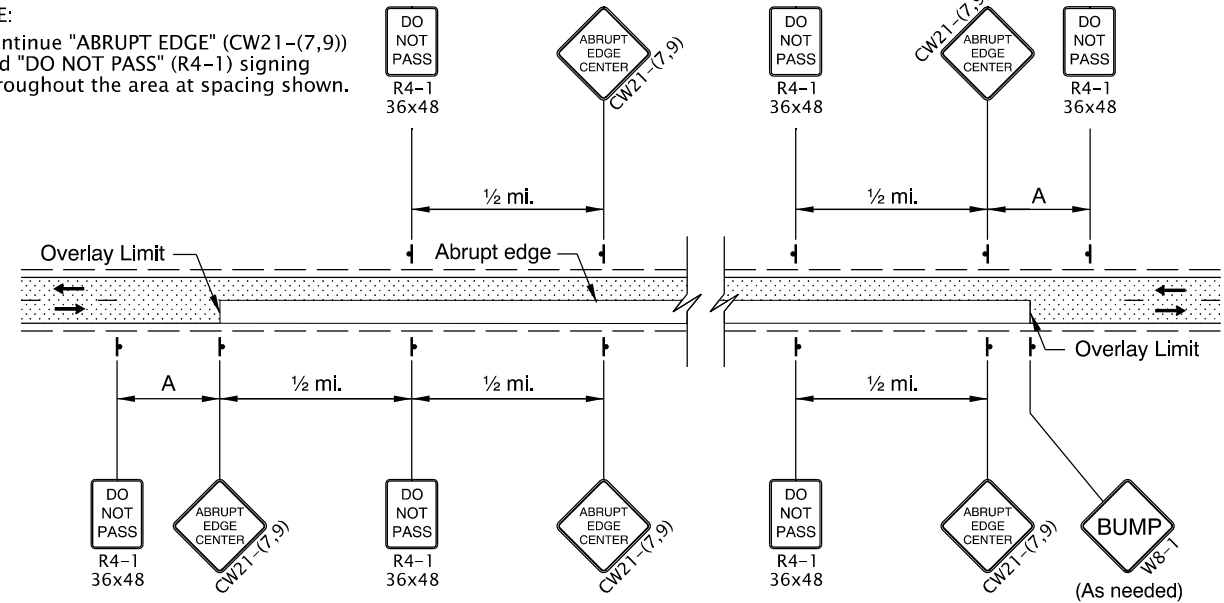
tm850.dgn 01-JUL-2022

- NOTE:**
- Continue "LOOSE GRAVEL" (CW8-7a) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.
  - Use advisory speed "XX", 15 mph less than the pre-construction posted speed, or as directed. "XX MPH" placard shall not exceed a posted speed of 35 mph.



**2-Lane, 2-Way Roadway  
LOOSE GRAVEL IN ROADWAY SIGNING**

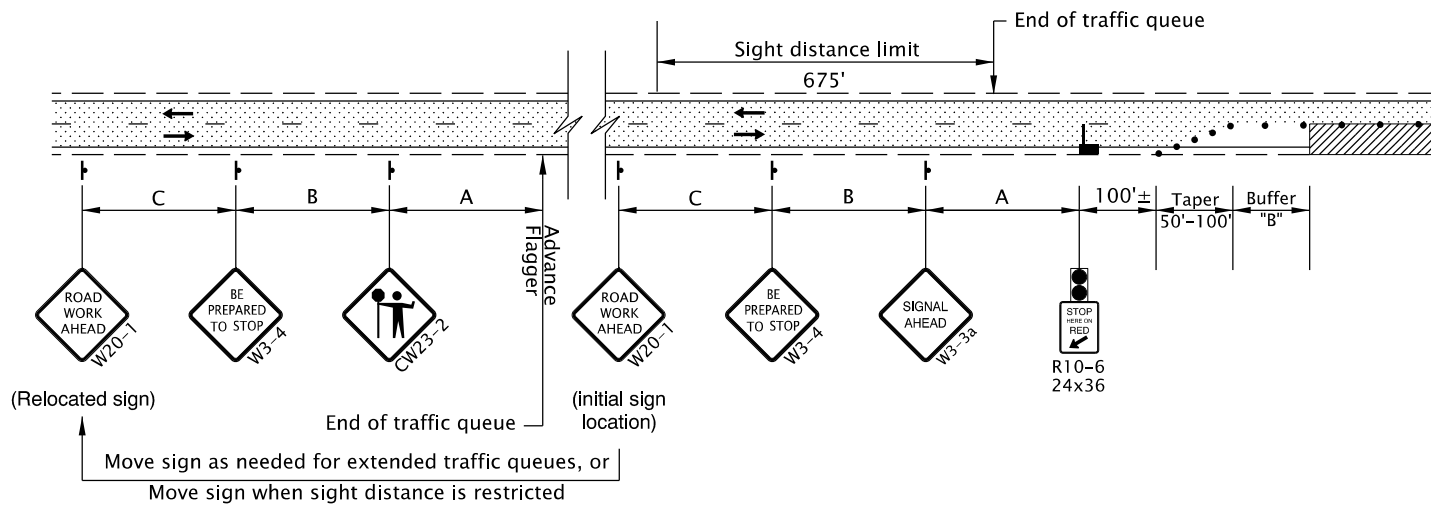
- NOTE:**
- Continue "ABRUPT EDGE" (CW21-(7,9)) and "DO NOT PASS" (R4-1) signing throughout the area at spacing shown.



**2-Lane, 2-Way Roadway  
OVERLAY AREA SIGNING**

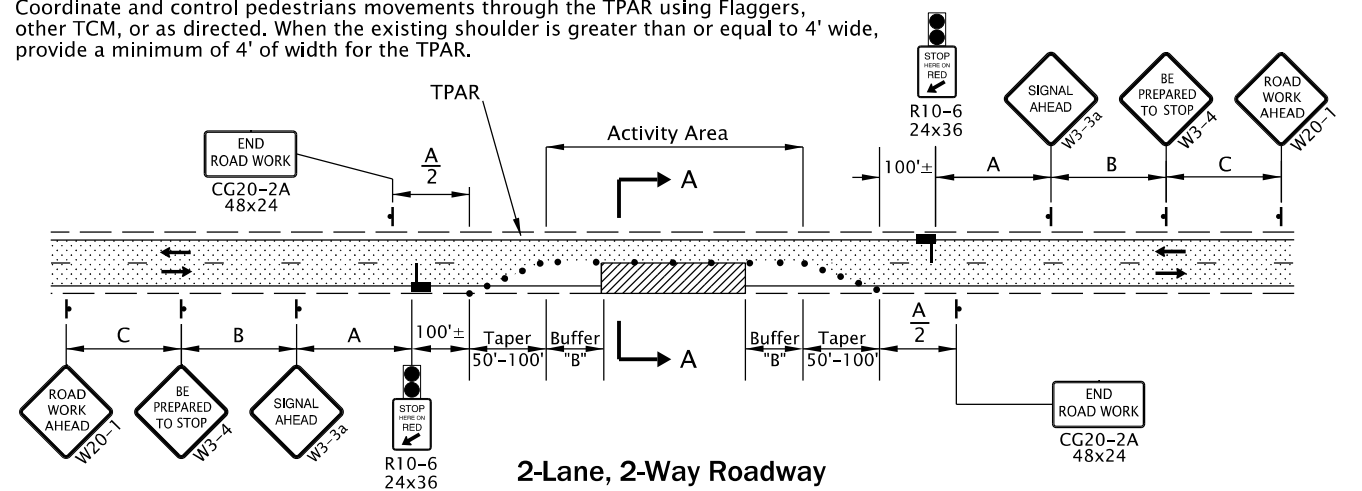
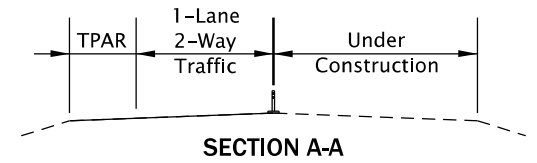
- NOTES:**
- Place Advance Flagger and additional signing when traffic queues extend beyond initial warning signing OR when sight distance is restricted.
  - Relocate initial "ROAD WORK AHEAD" (W20-1) sign in advance of additional "BE PREPARED TO STOP" (W3-4) and Flagger Ahead (CW23-2) signs, as shown.

- Place additional Tubular Markers for Flagger and Advance Flagger Stations according to FLAGGER STATION DELINEATION detail.



**ADVANCE FLAGGER FOR EXTENDED TRAFFIC QUEUES**

- NOTE:**
- When using pilot cars with flaggers to control traffic during paving operations, the Tubular Marker spacing along centerline may be increased to 200' within the Activity Area, as shown or as directed.
  - Include "WAIT FOR FLAGGER" (CR4-23) signs mounted on Type II Barricade located approx. 50' before each Flagger.
  - Coordinate and control pedestrians movements through the TPAR using Flaggers, other TCM, or as directed. When the existing shoulder is greater than or equal to 4' wide, provide a minimum of 4' of width for the TPAR.



**2-Lane, 2-Way Roadway  
ONE LANE CLOSURE**

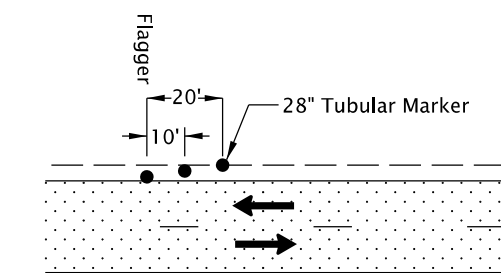
**GENERAL NOTES FOR ALL DETAILS:**

- The "SIGNAL AHEAD" (W3-3a) sign may be substituted with the Signal Ahead (W3-3) symbol sign.
- Cover existing passing zone signing, as directed.
- Install temporary striping as required.
- To determine Taper Length ("L") and Buffer Length ("B"), use the "MINIMUM LENGTHS TABLE" shown on Dwg. No. TM800.
- To determine sign spacing A, B, and C, use "TRAFFIC CONTROL DEVICES (TCD) SPACING TABLE" on Dwg. No. TM800.
- Install a "BICYCLES ON ROADWAY" (CW11-1) sign in advance of the closure when a bike lane is closed, or when the shoulder is closed and bikes are expected.
- At night, flagger stations shall be illuminated according to the FLAGGER STATION LIGHTING DELINEATION detail on Dwg No. TM800.

- To be accompanied by Dwg. Nos. TM820, TM821 & TM854.

- Automated Flagging Assistance Device (AFAD)
  - 28" Tubular Markers on 20' max. spacing for flagger tapers and stations
  - 28" Tubular Markers See TCD Spacing Table on TM800 for max. spacing.
- 

- NOTE:**
- Use a minimum of 3 tubular markers in shoulder taper on 10' spacing for flagger station delineation.



**FLAGGER STATION DELINEATION**

CALC. BOOK NO. \_\_\_\_\_ N/A \_\_\_\_\_ SDR DATE \_\_\_\_\_ 01-JUL-2022 \_\_\_\_\_

*The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.*

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

**OREGON STANDARD DRAWINGS**

**2-LANE, 2-WAY ROADWAYS**

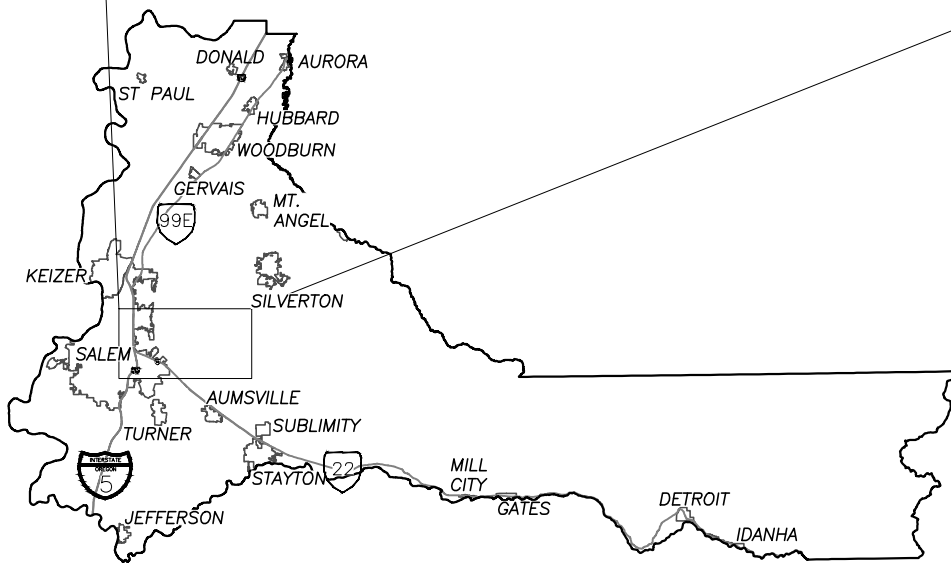
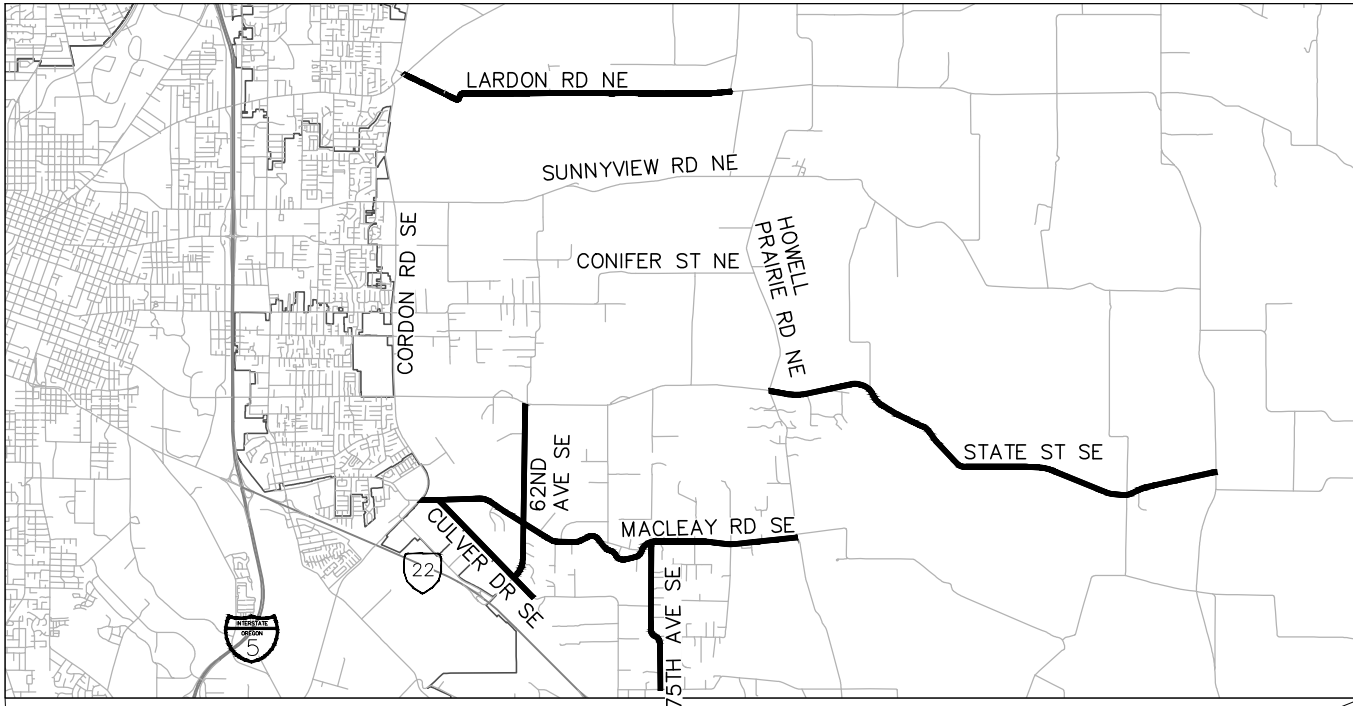
2021

DATE	REVISION DESCRIPTION
07/01/22	Added AFADs to drawing.

TM850



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MARION COUNTY DEPARTMENT OF PUBLIC WORKS



# RESURFACING 2023 VICINITY MAP

ECMS NO: 2023-101	PROJECT NO: N/A	SCALE: N.T.S	SHEET: V-1
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